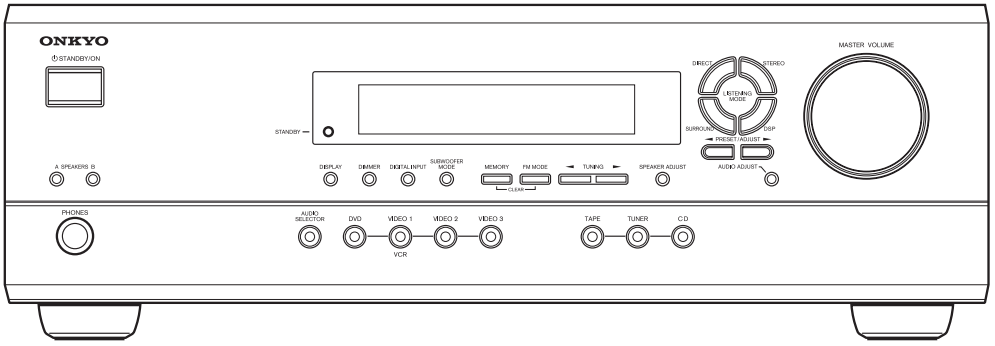
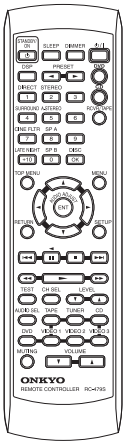
Ref. No. 3819
082004

ONKYO SERVICE MANUAL

AV RECEIVER
MODEL HT-R320





RC-479S

Silver model

SMDD	120V AC, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO®
IMAGINATIVE SIGHT & SOUND

SPECIFICATIONS

Amplifier Section

Power Output:

Front L/R:	100 W + 100 W
Center	100 W
Surround L/R	100 W + 100 W
	(8 Ω , 20 Hz~20 kHz, FTC)
Dynamic Power:	230 W + 230 W (3 Ω Front)
	170 W + 170 W (4 Ω Front)
	115 W + 115 W (8 Ω Front)
THD(Total Harmonic Distortion):	0.08 % (Power Rated)
Damping Factor:	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance:	200 mV/ 47 k Ω (LINE)
Output Level and Impedance:	200 mV/ 2.2 k Ω (REC OUT)
Frequency Response:	10 Hz~100 kHz / +0 dB -3 dB (Direct mode)
Tone Control:	+12 dB, -12 dB, 50 Hz (BASS)
	+12 dB, -12 dB, 20 kHz (TREBLE)
SN Ratio:	100 dB (CD, IHF-A)
Speaker Impedance:	8 Ω ~ 16 Ω

Video Section

Input Sensitivity /Output Level and Impedance:	1 Vp-p /75 Ω (Composite)

Tuner Section

■ FM

Tuning Frequency Range:	87.5 MHz~108.0 MHz
Usable Sensitivity:	Stereo 17.2 dBf 2 µV (75 Ω IHF)
	Mono 11.2 dBf 1 µV (75 Ω IHF)
S/N Ratio:	Stereo 70 dB (IHF-A)
	Mono 76 dB (IHF-A)
THD:	Stereo 0.3 % (1 kHz)
	Mono 0.2 % (1 kHz)
Stereo Separation:	45 dB (1 kHz)

■ AM

Tuning Frequency Range:	530 kHz~1710 kHz
Usable Sensitivity:	30 µV
S/N Ratio:	40 dB
THD:	0.70 %

General

Power Supply:	AC 120 V, 60 Hz
Power Consumption:	4.7 A
Stand-by Power Consumption:	1.6 W
Dimensions (W × H × D):	17-1/8 × 5-7/8 × 14-3/4 inches
	435 × 150 × 374 mm
Weight:	8.8 kg (19.4 lbs)

■ Video Inputs

A/V Input:	DVD, VIDEO 1, VIDEO 2, VIDEO 3

■ Video Outputs

A/V Output:	MONITOR OUT, VIDEO 1

■ Audio Inputs

Digital Inputs:	1 (Optical), 1 (Coaxial)
Analog Inputs:	DVD, MULTICHANNEL, CD, TAPE,
	VIDEO 1, VIDEO 2, VIDEO 3
Multichannel Inputs:	5.1

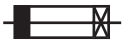
■ Audio Outputs

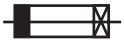
Analog Outputs:	TAPE, VIDEO 1
Subwoofer Pre Outputs:	1
Speaker Outputs:	5 + 2
Phones:	1

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses

 This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse, For fuse rating, refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

REF. NO.	DESCRIPTION	PART NO.	REMARKS
F6901	8A-UL	252198	!
F6901 or	8A-T/UL-ST2	252261	!
F6902	8A-UL	252198	!
F6902 or	8A-T/UL-ST2	252261	!
F901	8A-UL	252198	!
F901 or	8A-T/UL-ST2	252261	!
F903	5A-UL/T-237	252164	!
F903 or	5A-T/UL-ST2	252258	!

2. Safety-check out

(Only U.S.A. model)
After correcting the original service problem perform the following safety check before releasing the set to the customer
Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel.
Specifications: More than 10Mohm at 500V

3. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical sauce results in accident which causes the specified operations and functions to operate abnormally.
To perform a result, please follow the procedure below.

1. Press and the hold down the VIDEO 1 button , then press the STANDBY/ON button when the unit is Power ON.
2. After " *Clear* " is displayed, the preset memory and each mode stored in the memory, are initialized and will return to the factory settings.

4. How to check version of microprocessor?

Main microprocessor Q7008.

1. Press and the hold down the DISPLAY button , then press the STANDBY/ON button when the unit is Power ON.
   Version is displayed on FL display only for 3 seconds.

   ex. *Version 04212a*

2. Press the STANDBY/ON button to Power Off.

5. Memory Preservation

This unit does not require memory preservation batteries.
A built-in memory power backup system preserves the contents of memory during power failures and even when the power cord is unplugged.
The power cord must be plugged in order to charge the backup system.
The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On average, memory contents are protected over a period of a few weeks after the time the unit has been turned off.
This period is shorter when the unit is exposed to a very humid climate.

OPERATION CHECK-1

DC VOLTAGE DETECTION PROTECTORS

[NOTE1]
Limit time to apply voltage is 0.5 to 1.0 seconds each channel.
When protection operation does not occur at once, try several times.
[NOTE2]
Don't connect speakers or any load.
Don't short speaker terminals.

1. Set the unit to test mode **" *Test-1-00* "** .
 1-1. Press and the hold down the CD button , then press the STANDBY/ON button when the unit is Power ON.

FL display | *Test - _*

 1-2. Press the DVD button, while the *" Test - _ "* is shown.
 Unit will be in the state of " *Test-1-00* ".

Test - 1-00

2. Apply DC voltage (+1.5 to +3V) to **MULTI CHANNEL (FL, FR, SL, SR, C)** terminal, each channel.
3. Check that *" Protect "* is shown.
4. Apply DC voltage (-1.5 to -3V) to **MULTI CHANNEL (FL, FR, SL, SR, C)** terminal, each channel.
5. Check that *" Protect "* is shown.
6. Press the STANDBY/ON button.

Clear —0.5 sec.→ (Disappears)

CURRENT DETECTION PROTECTORS

[NOTE]
In the state of test mode*" Test-4-29 "*, the pulse waveform output for checking from speaker terminal automatically.
Therefore, oscillator is unnecessary.

1. Set the unit to test mode **" *Test-4-29* "**
 1-1. Press and the hold down the CD button , then press the STANDBY/ON button when the unit is Power ON.

FL display | *Test - _*

 1-2. Press the VIDEO 3 button, while the*" Test - _ "* is shown.
 Unit will be in the state of " *Test-4-00* ".

Test - 4-00

 1-3. Repeat and press SPEAKERS B button to the " *Test-4-29* " is shown.

Test - 4-29

2. Connect the lord resister (3 ohms) to the speaker terminals.
3. Check that the*" Protect "* is not shown, and speaker relays **not** turn OFF.
4. Check the each speaker terminals.
5. Connect the lord resister (1.5 ohms) to the speaker terminals.
6. Check that the *" Protect "* is shown, and speaker relays turn OFF immediately.
7. Check the each speaker terminals.
8. Press the STANDBY/ON button.

Clear → (Disappears)

OPERATION CHECK-2

OUTPUT LEVEL & THERMAL DETECTION

Regarding the power supply system of this unit.

<Function>

1. High-voltage mode

Usually, the power supply supplies high voltage to the power amplifier circuit when the relay (RL6901) is turned On.

2. Low-voltage mode

When as follows, a power supply changes to the state of supplying low voltage when the relay (RL6901) in turned Off.

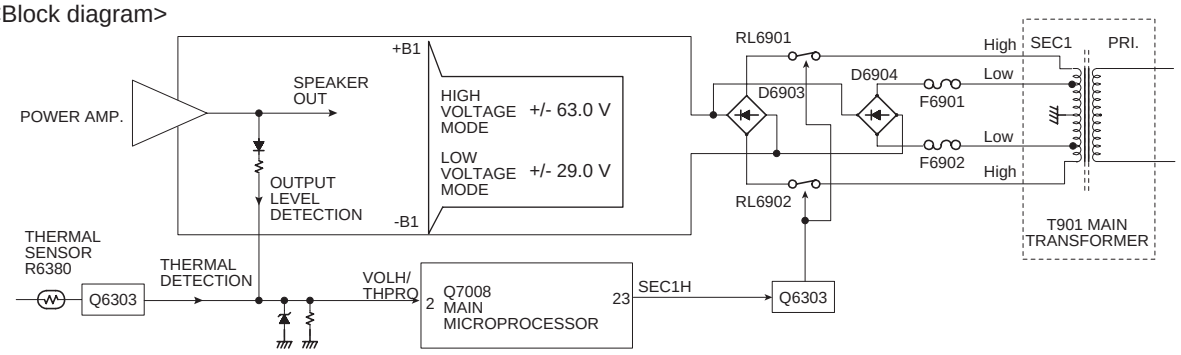
(1) Excessive output signal is continuously outputted from power amplifier.

(2) Temperature of a heat sink over 80 degrees.

<Purpose>

1. The loss which power amplifier generates is decreased. As a result, the miniaturization of a heat sink is realized.
2. Corresponds to a safety standard.

<Block diagram>



<Necessity for a check of operation>

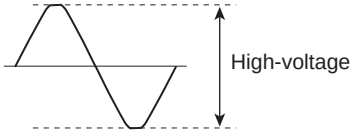
May not notice the fuse (F6901, F6902) broken in the case of repair.
Because the power supply is continuing supplying voltage from the High side of SEC1 at high-voltage mode.
When a power supply circuit changes to low voltage mode, amplifier does not operate.
Therefore, it is very important to check operation of this power supply system containing a fuse.

<Procedure>

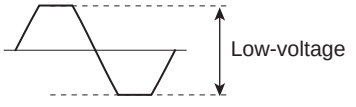
[NOTE]

Don't connect speakers or any load.
Don't short speaker terminals.

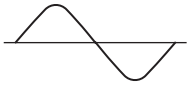
(1) Set the unit is Multi channel input state.
(2) Set the master volume into the minimum.
(3) Apply sine wave signal to MULTI CHANNEL INPUT (FL+FR+C+SL) terminals.
(4) Connect an oscilloscope to speaker terminal of FL channel.
(5) Adjust master volume so that a speaker output may become distortion about 5%.



(6) Check that the RL6901 and RL6902 are turned Off after about 5 seconds progress.
And the power supply changes to low-voltage mode.



(7) Adjust the master volume so that output voltage may become half.



(8) Check that the RL6901 and RL6902 are turned On after 2 to 3 minutes.
And the power supply returns to high-voltage mode.

OPERATION CHECK-3

OUTPUT LEVEL & THERMAL DETECTION

<Check by test mode>

The following is the procedure of checking detection operation of a microprocessor in false, by using test mode.

OUTPUT LEVEL DETECTION

1. Set the unit to test mode *" Test-3-2 "*

1-1. Press and the hold down the CD button , then press the STANDBY/ON button when the unit is Power On.

Test - _

1-2. Press the VIDEO 2 button, while the*" Test - _ "* is shown.
Unit will be in the state of " *Test-3-00* ".

Test - 3-00

1-3. Repeat and press SPEAKERS B to while the *" Test-3-2 "* is shown.

Test - 3-02

2. Apply signal (sine wave 1kHz, -1.5dBV) to **MULTI CHANNEL (FL, FR, SL, SR, C)** terminal, each channel.
3. Check that FM STEREO indicator is shown.

FM STEREO *Test - 3-02*

FM STEREO

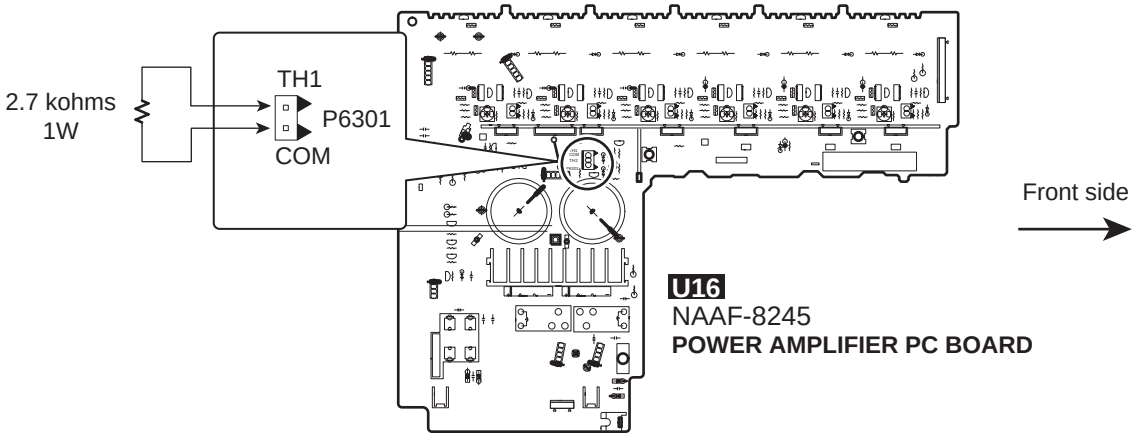
4. Press the STANDBY/ON button.

Clear	0.5 sec. →	Disappears

THERMAL DETECTION

1. Set the unit to test mode *" Test-3-2 "*
Refer to the clause of "Output level detection".

2. Connect the resistor (2.7 kohms, 1W) between " HT1 " and " COM " terminals of P6301.



3. Check that FM STEREO indicator is shown.

FM STEREO *Test - 3-02*

FM STEREO

4. Press the STANDBY/ON button.

Clear	0.5 sec. →	Disappears

OPERATION CHECK-4

DSP DEBUG MODE

<Regarding the DSP debug mode>

TIn this test mode, the check with normal communication of a microprocessor and the data of DSP and DIR is possible. This information is a help to find the cause of failure.

<How to go in DSP debug mode>

1. Press and hold down the DISPLAY button, then press the STANDBY/ON button when the unit is power ON.

FL display <Ex.>

Version 04212a

2. Press the DISPLAY button, while the" *Version 04212a* " is shown.

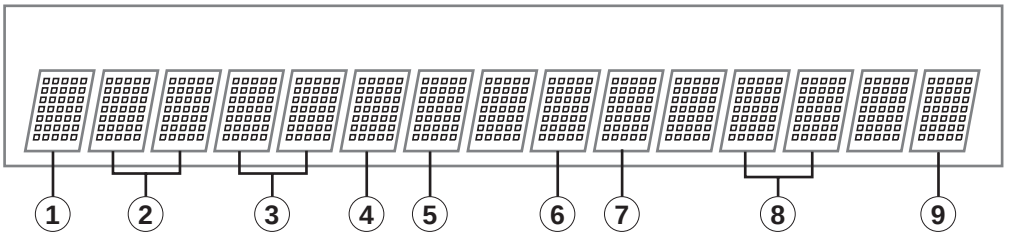
DSP Debug Mode	1 sec. →	E1A---0 -o 23 o

<How to exit>

Press STANDBY/ON button.

<Explanation of each parameter>

Details of FL display



DIR

1 UNLOCK
- E = UNLOCK
- = LOCK

2 Digital Selector
- D = DIGITAL
- A = ANALOG
- 1 = COAX
- 2 = OPT1
- 3 = OPT2
- 4 = Others

3 Sampling Frequency
- 96 = 96kHz
- 48 = 48kHz
- 44 = 44kHz
- 32 = 32kHz
- = Not detect

4 Pre Emphasis
- K = OFF
- e = ON

5 DIR Status
- 0 = PCM/ANALOG
- 2 = DTS CD
- 5 = DD/DTS/AAC

MEMORY/DOWNLOAD

6 MEMORY Address
- 0 = AC3+PLII
- 1 = AC3/PCM+T-D
- 2 = DTS/DTS-ES
- 3 = DTS
- 5 = AAC+PL"6" : COS
- 7 = FACTORY TEST MODE

7 ROM/RAM Select/Download Status
- H = RAM (Complete Auto Boot)
- L = ROM (Under Auto boot)

DSP

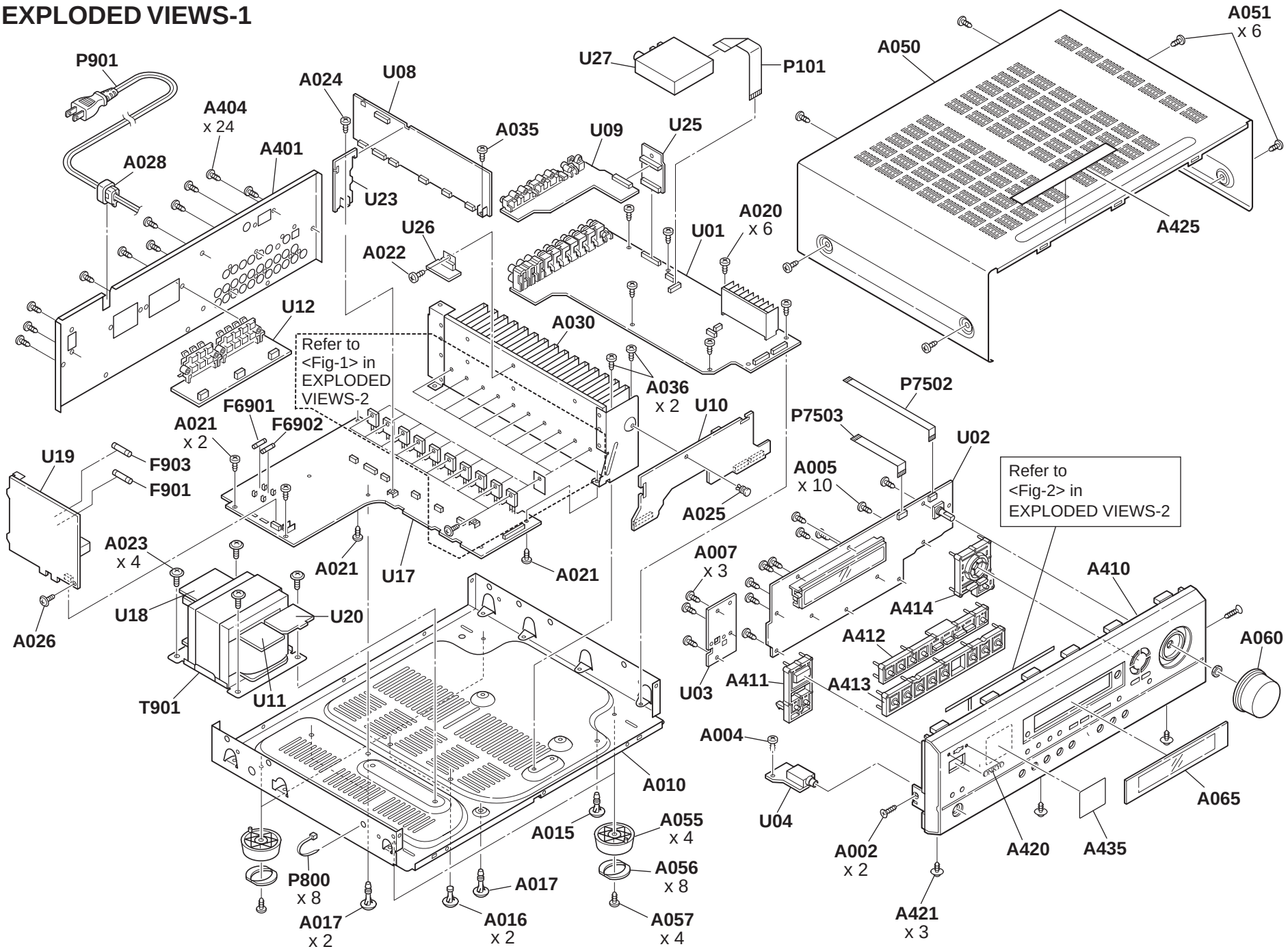
8 DSP Detect Format

[IEC61937]
- 00 = Null
- 01= Dolby Digital
- 03 = Pause
- 04 = MPEG1 L1
- 05 = MPEG1 L23/MPEG2 w/o
- 06 = MPEG2 w/o
- 07 = MPEG2 AAC
- 0B = DTS1
- 0C = DTS2
- 0D = DTS3
- 1B = MPEG2 AAC1
- 1C = MPEG2 AAC2

[Except IEC61937]
- 20 = Silent
- 21 = DTS LD
- 22 = DTS CD
- 23 = PCM

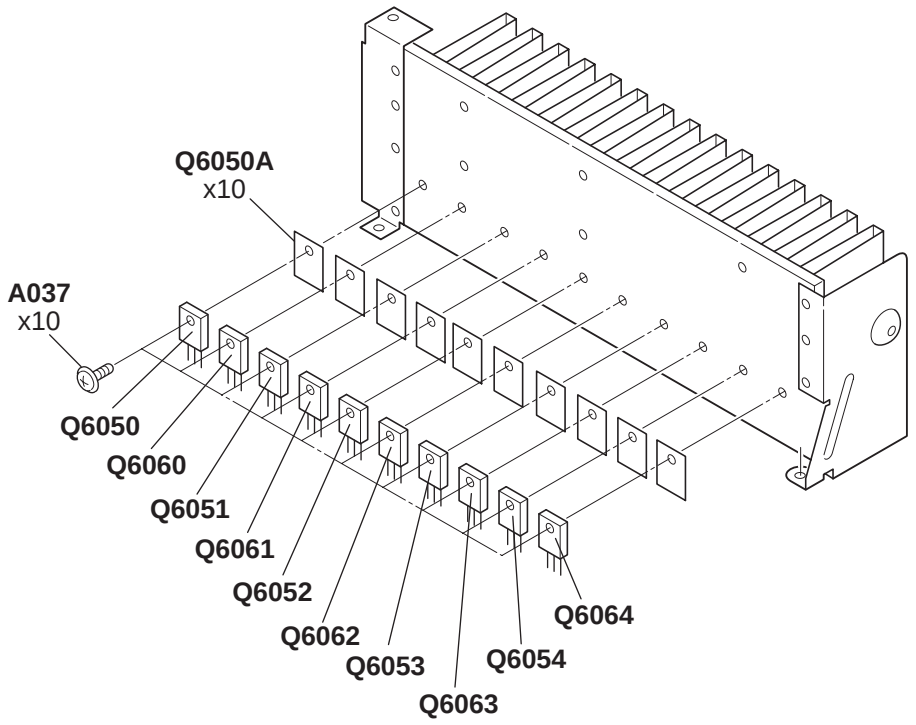
9 DSP Decode
- 0 = Decode OK
- X = Decode NG
- - = Analog in

EXPLODED VIEWS-1



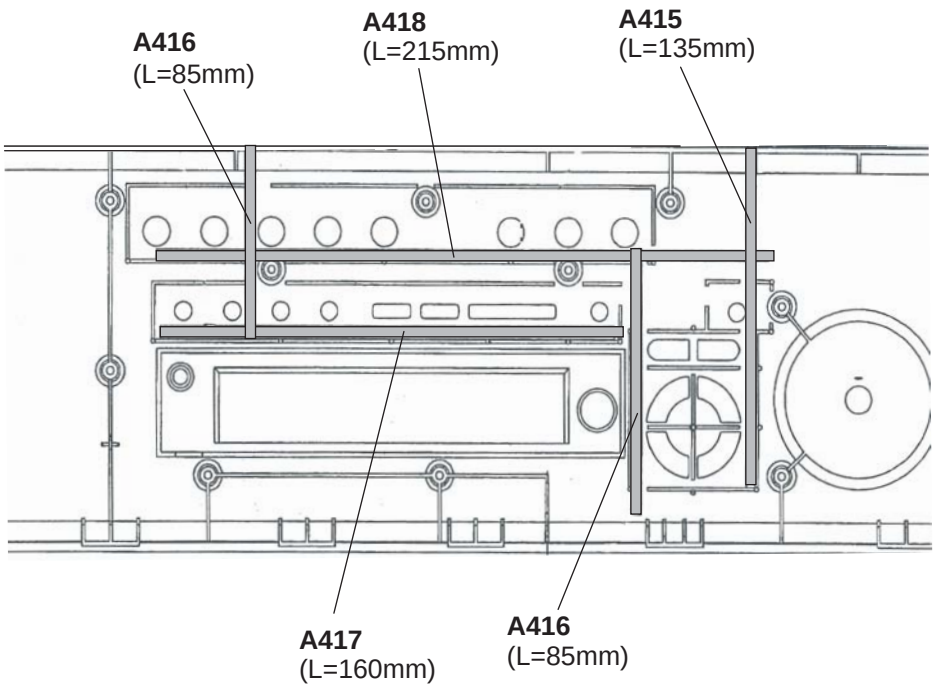
EXPLODED VIEWS-2

<Fig-1>



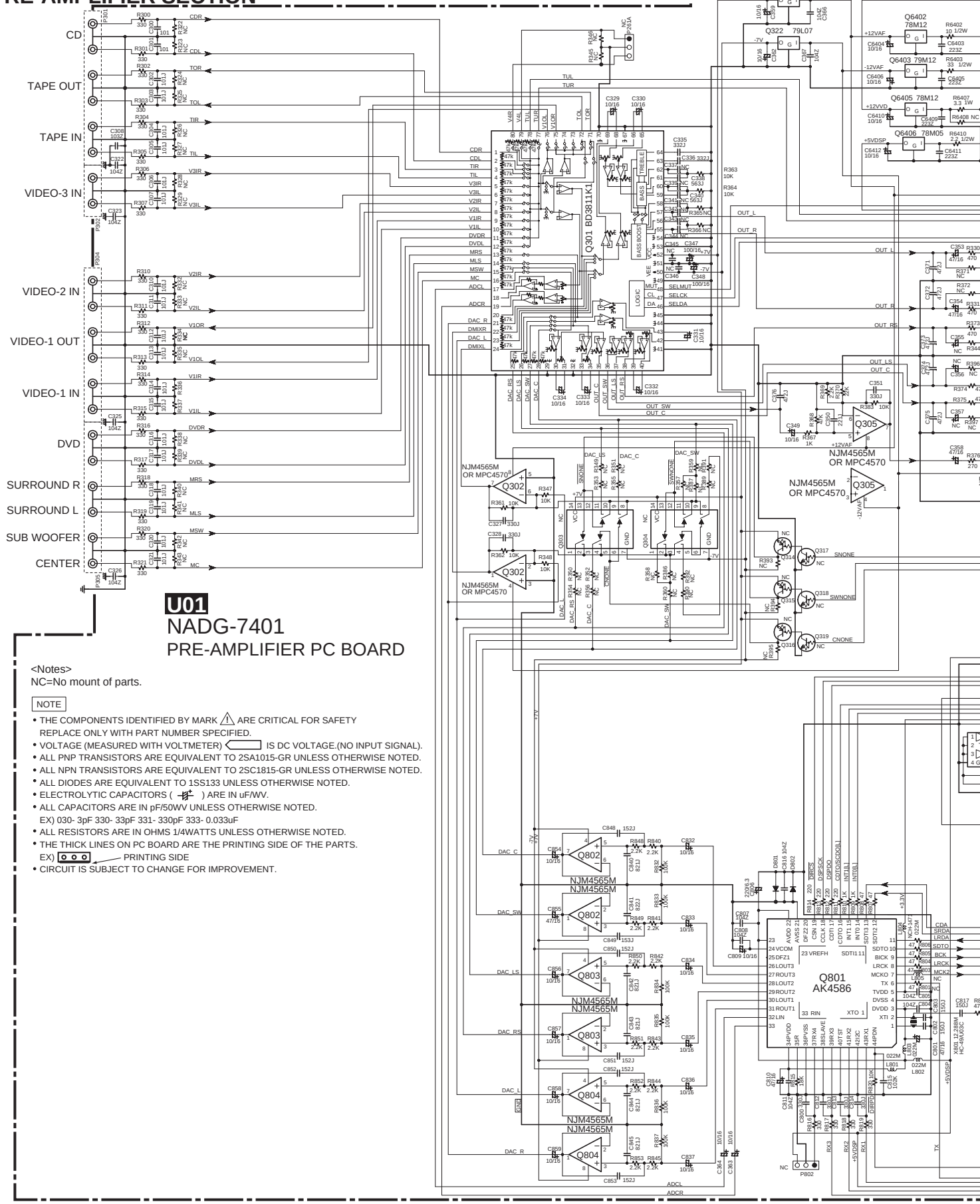
<Fig-2>

FRONT PANEL INSIDE VIEW



SCHEMATIC DIAGRAMS-1

PRE-AMPLIFIER SECTION

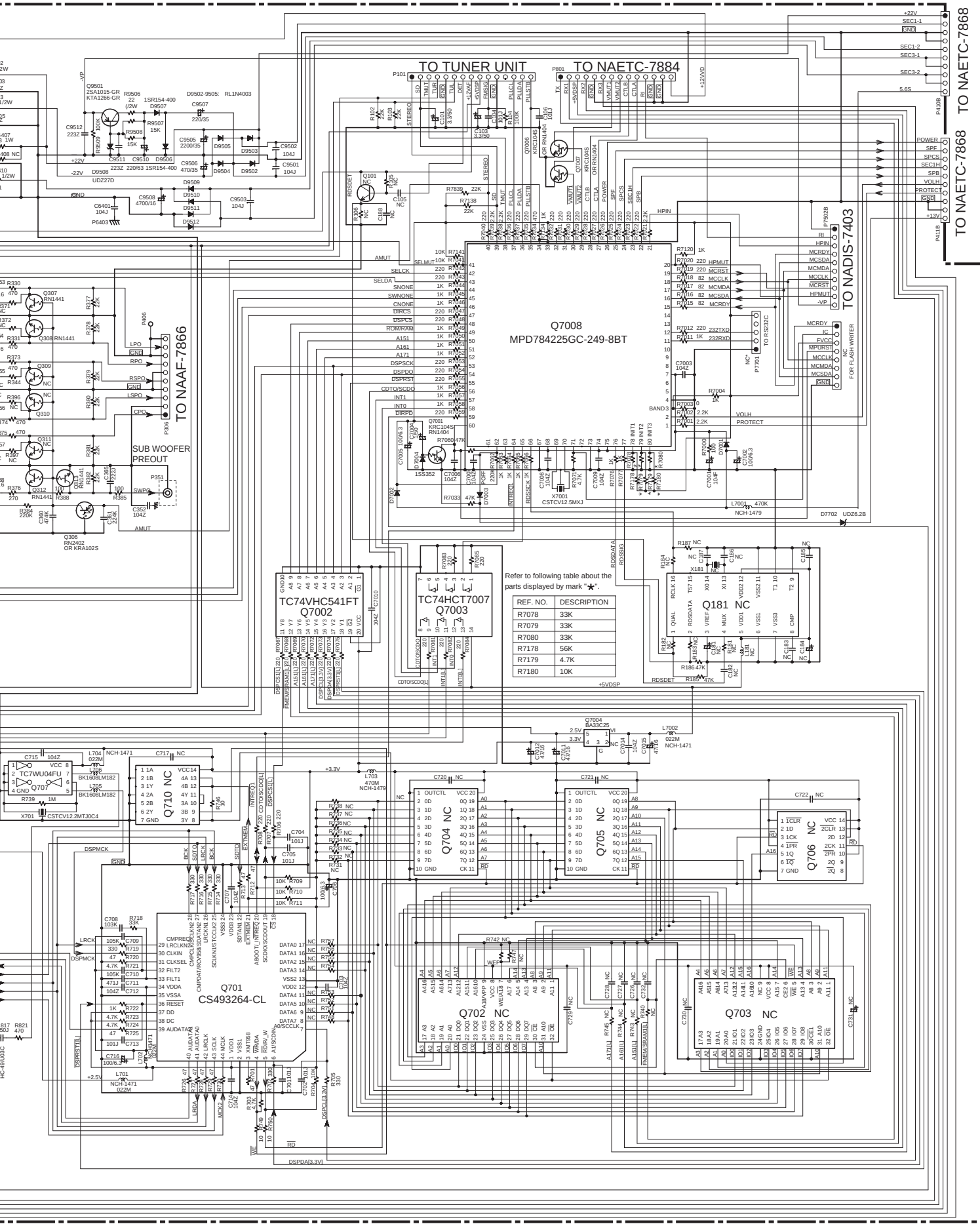


<Notes>
NC=No mount of parts.

NOTE

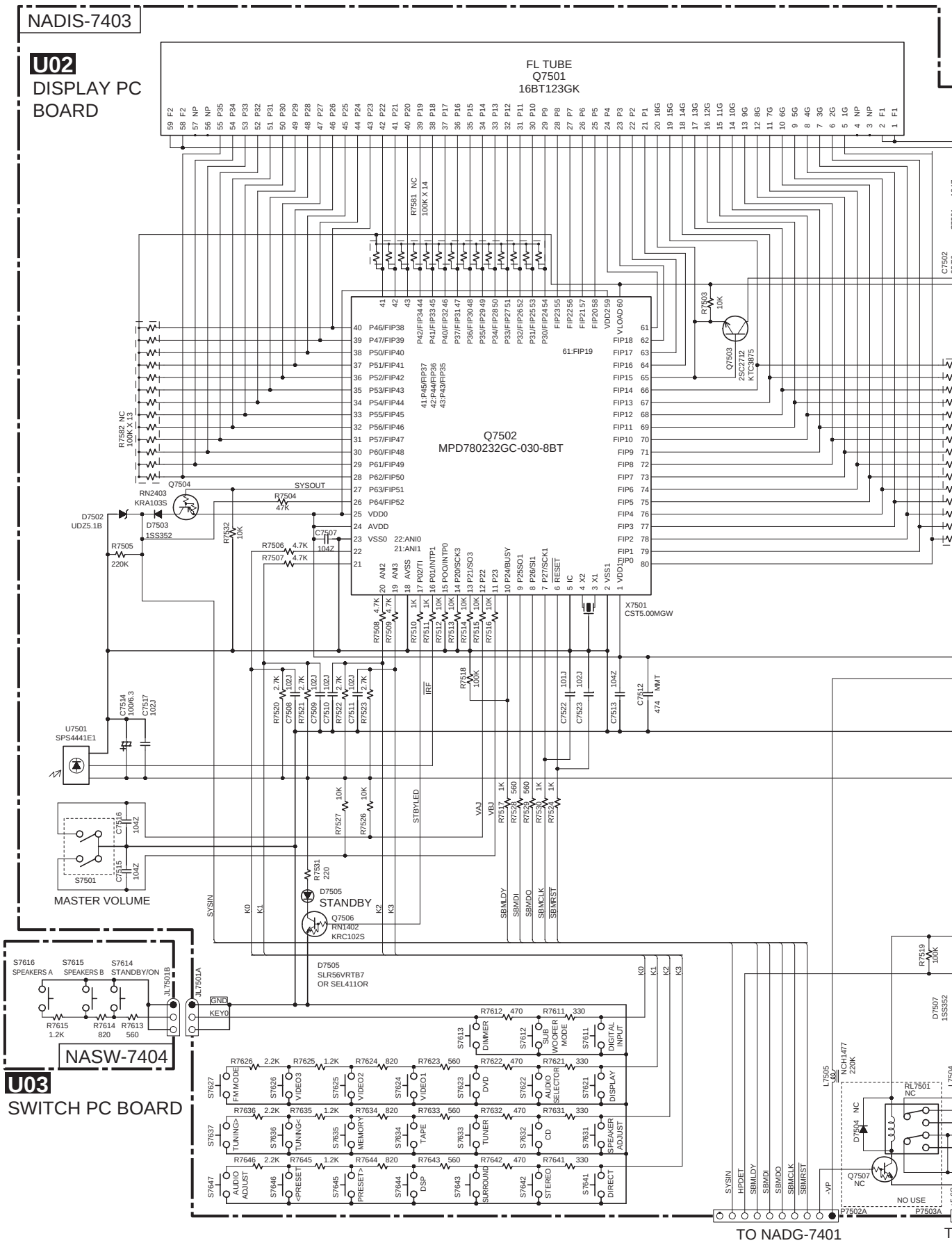
- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊙⊙⊙ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

E F G H

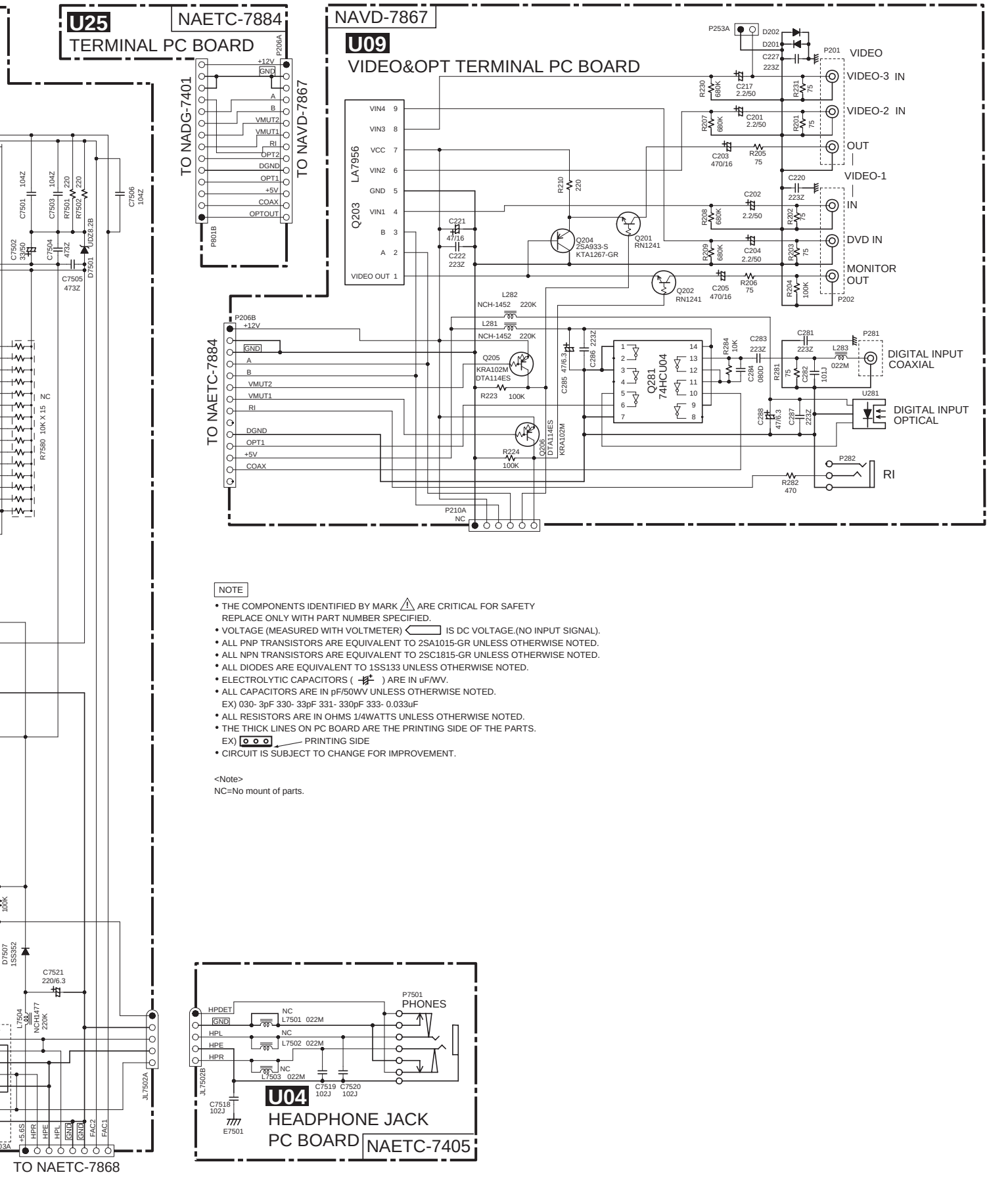


REF. NO.	DESCRIPTION
R7078	33K
R7079	33K
R7080	33K
R7178	56K
R7179	4.7K
R7180	10K

SCHEMATIC DIAGRAMS-2
DISPLAY & VIDEO SECTION



E F G H


U25
NAETC-7884
TERMINAL PC BOARD
P206A
+12V
GND
A
B
VMUT2
VMUT1
RI
OPT2
DGND
OPT1
+5V
COAX
OPTOUT
P801B
TO NADG-7401
TO NAVD-7867
NAVD-7867
U09
VIDEO&OPT TERMINAL PC BOARD
LA7956
Q203
VIN4 9
VIN3 8
VCC 7
VIN2 6
GND 5
VIN1 4
B 3
A 2
VIDEO OUT 1
P253A
D202
D201
C227 223Z
P201
VIDEO
VIDEO-3 IN
VIDEO-2 IN
OUT
VIDEO-1
IN
DVD IN
MONITOR OUT
P202
R230 680K
C217 2.2/50
R231 75
R207 680K
C201 2.2/50
R201 75
C203 470/16
R205 75
C220 223Z
C202 2.2/50
R208 680K
R202 75
R209 680K
C204 2.2/50
R203 75
C205 470/16
R206 75
R204 100K
R210 220
C221 47/16
C222 223Z
Q204 2SA933-S KTA1267-GR
Q201 RN1241
Q202 RN1241
L282 NCH-1452 220K
L281 NCH-1452 220K
P206B
+12V
GND
A
B
VMUT2
VMUT1
RI
DGND
OPT1
+5V
COAX
TO NAETC-7884
Q205 KRA102M DTA114ES
R223 100K
Q206 DTA114ES KRA102M
R224 100K
C285 47/6.3
C286 223Z
Q281 74HCU04
R284 10K
C283 223Z
C284 080D
C281 223Z
P281
L283 022M
R281 75
C282 101J
DIGITAL INPUT COAXIAL
U281
DIGITAL INPUT OPTICAL
C288 47/6.3
C287 223Z
P282
RI
R282 470
P210A
NC
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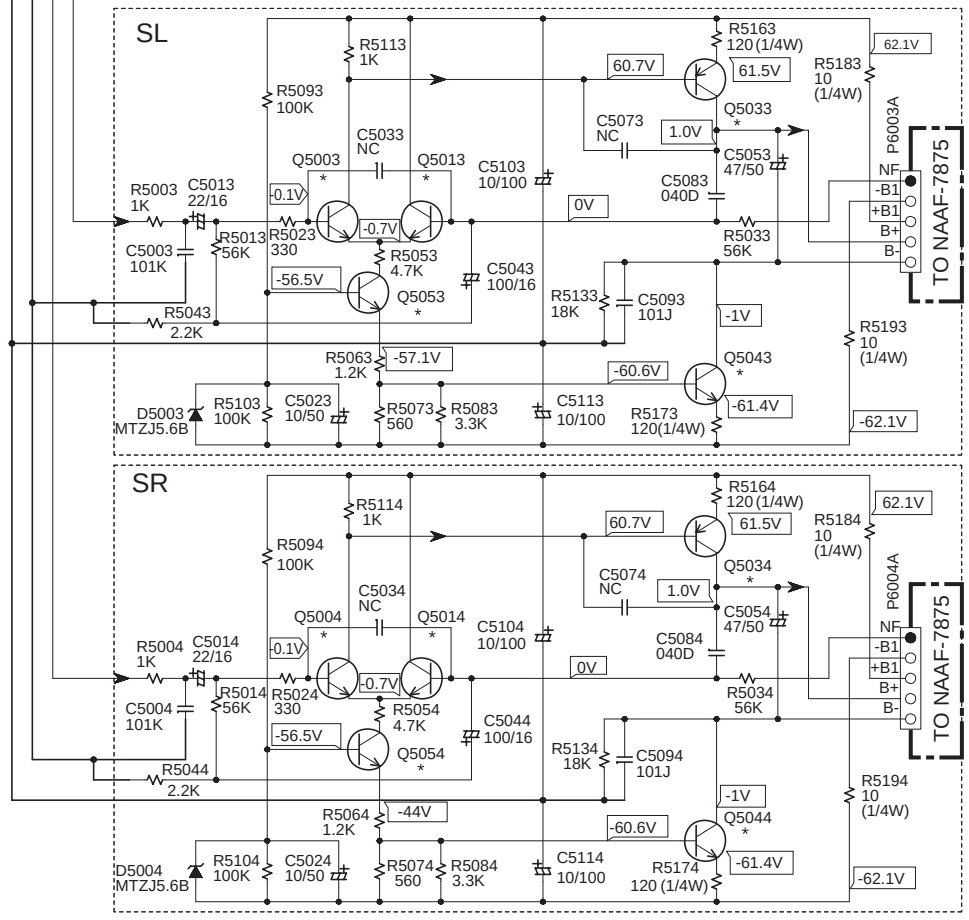
EX) PRINTING SIDE
• CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.
<Note>
NC=No mount of parts.
C7501 104Z
C7503 104Z
R7501 220
R7502 220
C7506 104Z
C7502 330
C7504 473Z
C7505 473Z
UDZ5.2B
D7501
NC
R7980 10K X 15
100K
D7507 1SS352
C7521 220/6.3
L7504 022M
NCH-1477 220K
JL7502A
+5.6S
HPR
HPE
HPL
GND
GND
FAC2
FAC1
TO NAETC-7868
P7501
PHONES
HPDET
GND
HPL
HPE
HPR
NC
L7501 022M
NC
L7502 022M
NC
L7503 022M
C7519 102J
C7520 102J
C7518 102J
E7501
JL7502B
U04
HEADPHONE JACK
PC BOARD
NAETC-7405

SCHEMATIC DIAGRAMS-3
DRIVER AMPLIFIER SECTION

NAAF-7866

U08
DRIVER
AMPLIFIER
PC BOARD



NOTE

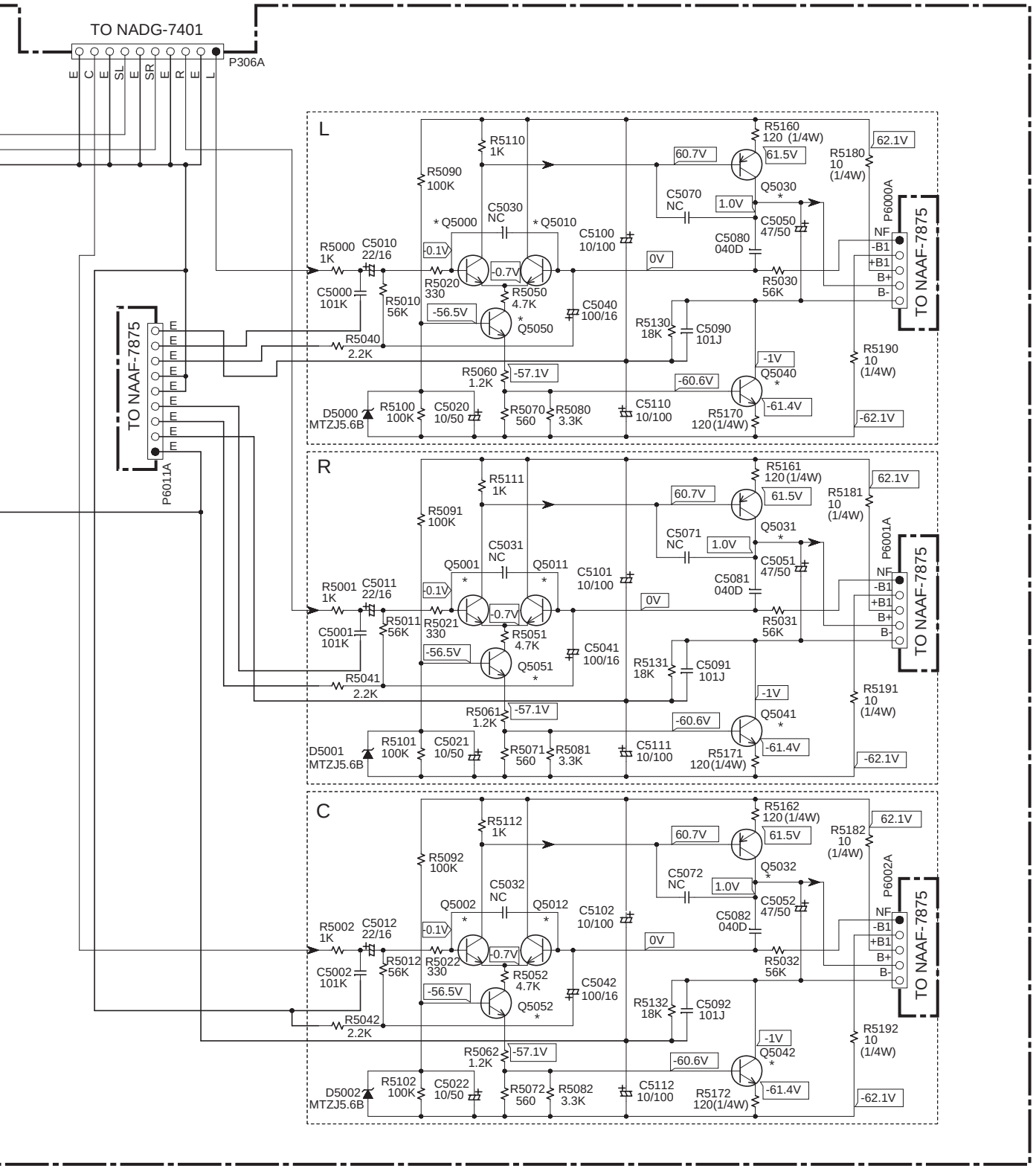
- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Notes>
NC=No mount of parts.

Refer to following table about the parts displayed by mark "★".

REF. NO.	DESCRIPTION
Q5000-04,Q5010-14	KTC3200-BL OR 2SC1775A-E,F OR 2SC1845-E
Q5030-34	KTA1024-Y,O OR 2SA949-Y,O
Q5040-44	KTC3206-Y,O OR 2SC2229-Y,O
Q5050-54	KTC3200-BL,GR OR 2SC1775A-E,F OR 2SC1845-E,F

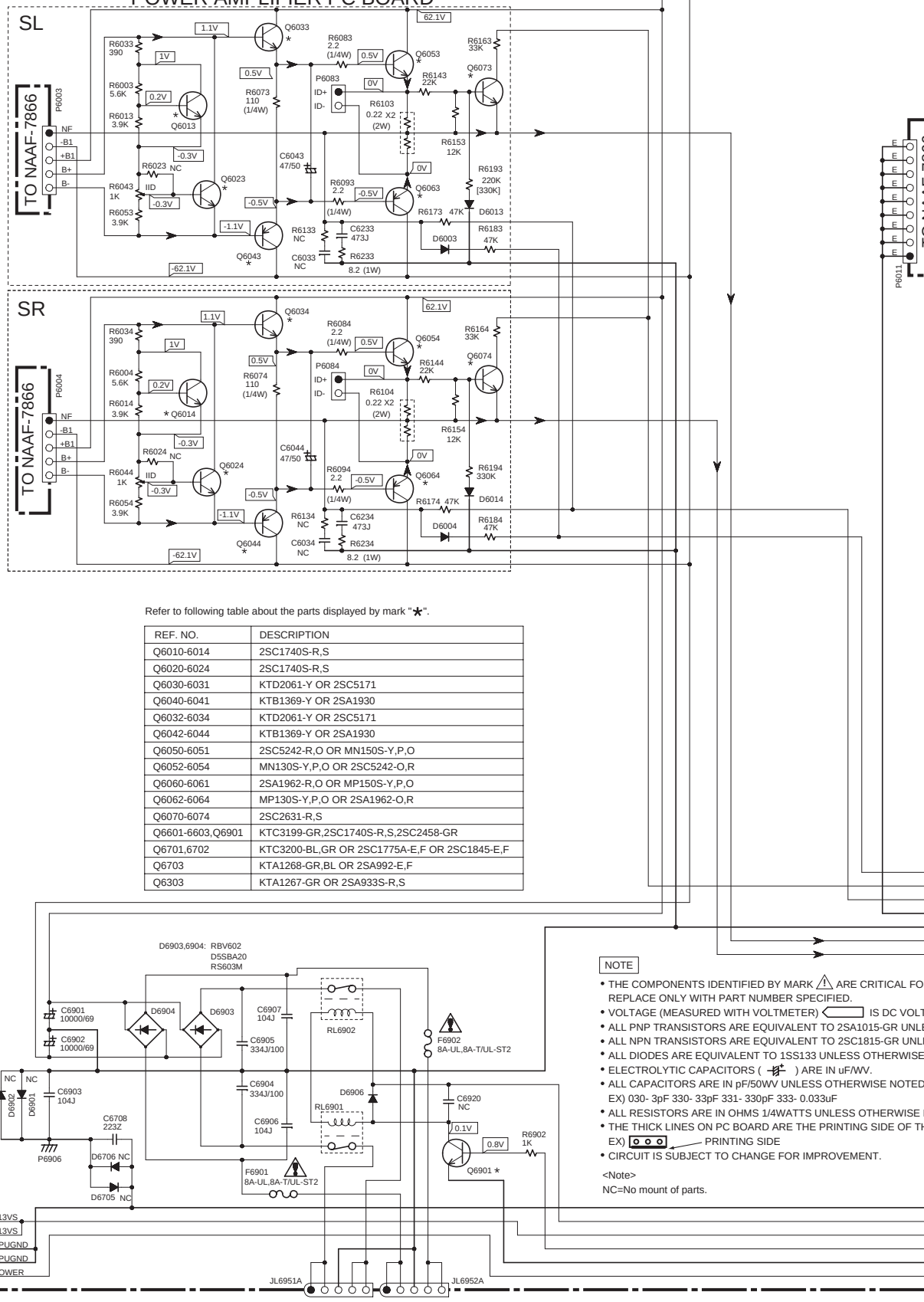
E F G H


TO NADG-7401
P306A
E C E SL E SR E R E L
TO NAAF-7875
P6011A
L
R
C
R5110 1K
R5090 100K
C5030 NC
* Q5000
* Q5010
C5100 10/100
R5000 1K
C5010 22/16
C5000 101K
R5010 56K
R5020 330
R5050 4.7K
* Q5050
C5040 100/16
R5040 2.2K
R5060 1.2K
D5000 MTZJ5.6B
R5100 100K
C5020 10/50
R5070 560
R5080 3.3K
C5110 10/100
R5160 120 (1/4W)
R5180 10 (1/4W)
Q5030 *
C5070 NC
C5050 47/50
C5080 040D
R5030 56K
R5130 18K
C5090 101J
R5190 10 (1/4W)
Q5040 *
R5170 120 (1/4W)
60.7V
61.5V
62.1V
1.0V
0V
-0.1V
-0.7V
-56.5V
-57.1V
-60.6V
-61.4V
-62.1V
-1V
P6000A
NF
-B1
+B1
B+
B-
TO NAAF-7875
R5111 1K
R5091 100K
C5031 NC
Q5001 *
Q5011 *
C5101 10/100
R5001 1K
C5011 22/16
C5001 101K
R5011 56K
R5021 330
R5051 4.7K
Q5051 *
C5041 100/16
R5041 2.2K
R5061 1.2K
D5001 MTZJ5.6B
R5101 100K
C5021 10/50
R5071 560
R5081 3.3K
C5111 10/100
R5161 120 (1/4W)
R5181 10 (1/4W)
Q5031 *
C5071 NC
C5051 47/50
C5081 040D
R5031 56K
R5131 18K
C5091 101J
R5191 10 (1/4W)
Q5041 *
R5171 120 (1/4W)
P6001A
R5112 1K
R5092 100K
C5032 NC
Q5002 *
Q5012 *
C5102 10/100
R5002 1K
C5012 22/16
C5002 101K
R5012 56K
R5022 330
R5052 4.7K
Q5052 *
C5042 100/16
R5042 2.2K
R5062 1.2K
D5002 MTZJ5.6B
R5102 100K
C5022 10/50
R5072 560
R5082 3.3K
C5112 10/100
R5162 120 (1/4W)
R5182 10 (1/4W)
Q5032 *
C5072 NC
C5052 47/50
C5082 040D
R5032 56K
R5132 18K
C5092 101J
R5192 10 (1/4W)
Q5042 *
R5172 120 (1/4W)
P6002A

SCHEMATIC DIAGRAMS-4
POWER AMPLIFIER SECTION

NAAF-7875 **U17**

POWER AMPLIFIER PC BOARD



Refer to following table about the parts displayed by mark "*".

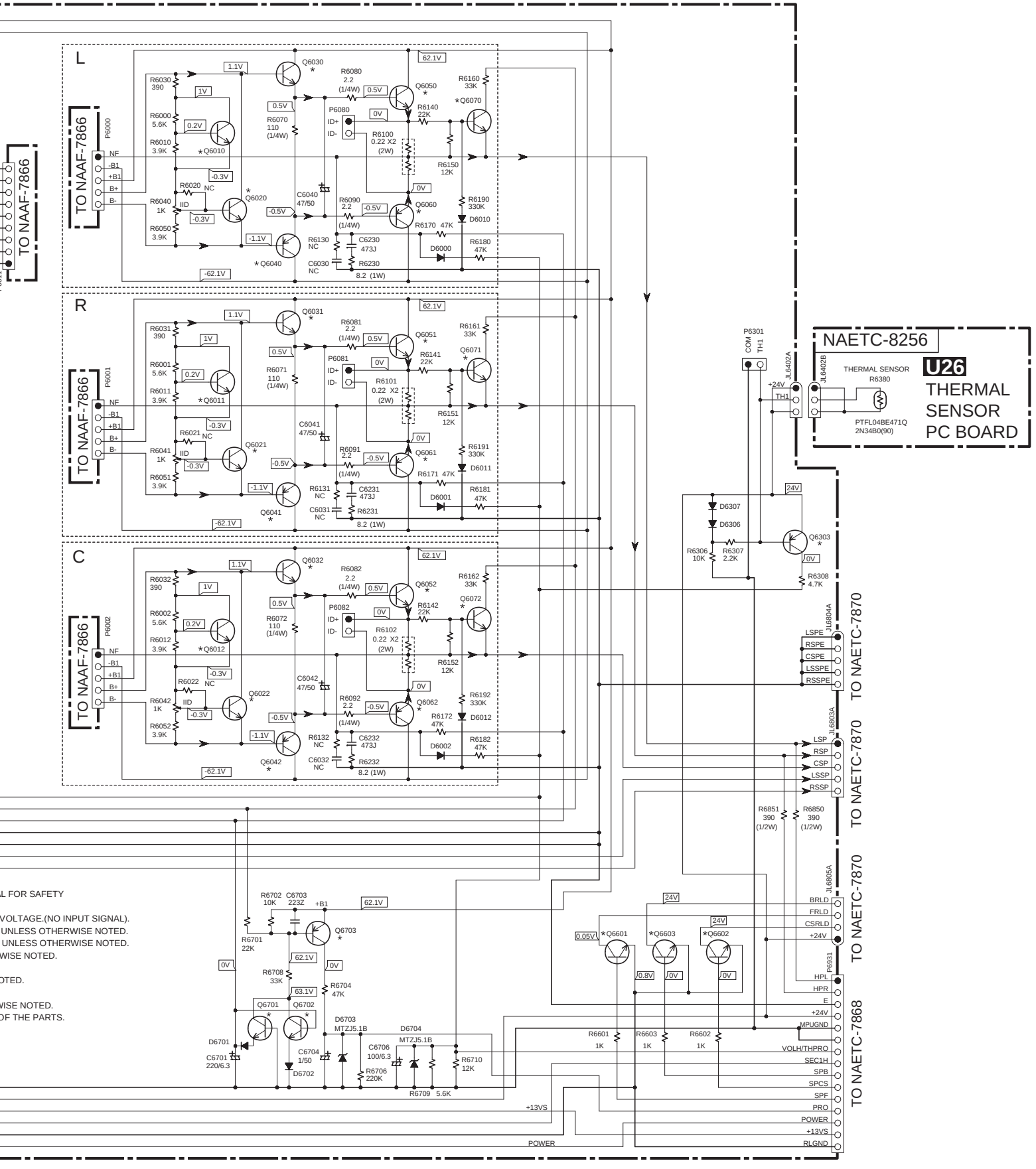
REF. NO.	DESCRIPTION
Q6010-6014	2SC1740S-R,S
Q6020-6024	2SC1740S-R,S
Q6030-6031	KTD2061-Y OR 2SC5171
Q6040-6041	KTB1369-Y OR 2SA1930
Q6032-6034	KTD2061-Y OR 2SC5171
Q6042-6044	KTB1369-Y OR 2SA1930
Q6050-6051	2SC5242-R,O OR MN150S-Y,P,O
Q6052-6054	MN130S-Y,P,O OR 2SC5242-O,R
Q6060-6061	2SA1962-R,O OR MP150S-Y,P,O
Q6062-6064	MP130S-Y,P,O OR 2SA1962-O,R
Q6070-6074	2SC2631-R,S
Q6601-6603,Q6901	KTC3199-GR,2SC1740S-R,S,2SC2458-GR
Q6701,6702	KTC3200-BL,GR OR 2SC1775A-E,F OR 2SC1845-E,F
Q6703	KTA1268-GR,BL OR 2SA992-E,F
Q6303	KTA1267-GR OR 2SA933S-R,S

NOTE

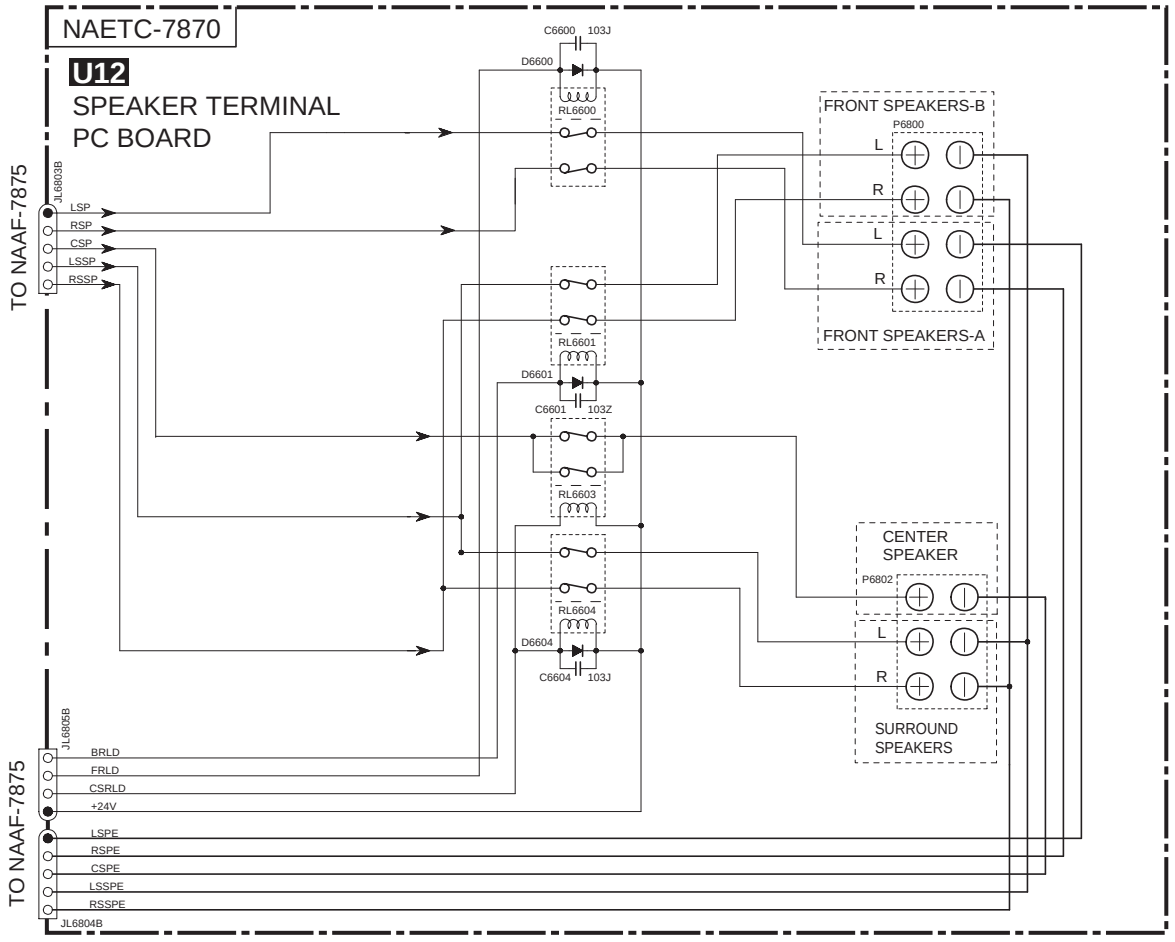
- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FO
  REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ ⟩ IS DC VOLT
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLE
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLI
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE
- ELECTROLYTIC CAPACITORS (⊣+) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF TH
  EX) ⊂o o o⊃ ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

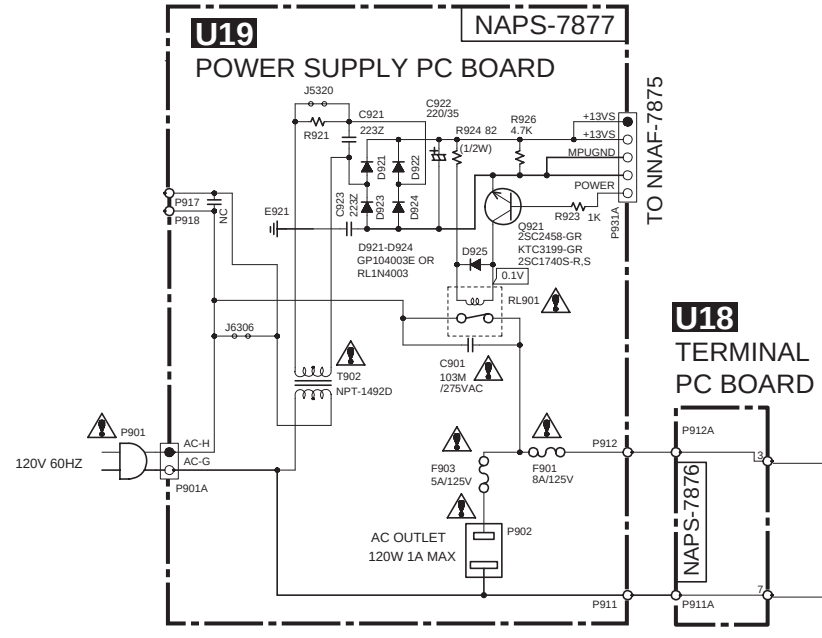
<Note>
NC=No mount of parts.

E F G H


L
R
C
TO NAAF-7866
P6000
P6001
P6002
NF
-B1
+B1
B+
B-
Q6030
Q6031
Q6032
Q6010
Q6011
Q6012
Q6020
Q6021
Q6022
Q6040
Q6041
Q6042
Q6050
Q6051
Q6052
Q6060
Q6061
Q6062
Q6070
Q6071
Q6072
R6030
R6031
R6032
R6000
R6001
R6002
R6010
R6011
R6012
R6020
R6021
R6022
R6040
R6041
R6042
R6050
R6051
R6052
R6080
R6081
R6082
R6090
R6091
R6092
R6070
R6071
R6072
R6100
R6101
R6102
R6140
R6141
R6142
R6150
R6151
R6152
R6160
R6161
R6162
R6170
R6171
R6172
R6180
R6181
R6182
R6190
R6191
R6192
R6130
R6131
R6132
R6230
R6231
R6232
C6040
C6041
C6042
C6030
C6031
C6032
C6230
C6231
C6232
D6000
D6001
D6002
D6010
D6011
D6012
P6080
P6081
P6082
ID+
ID-
1.1V
1V
0.5V
0.2V
0V
-0.3V
-0.5V
-1.1V
-62.1V
62.1V
IID
NC
47/50
473J
8.2 (1W)
0.22 X2 (2W)
2.2 (1/4W)
110 (1/4W)
3.9K
5.6K
390
1K
10K
12K
22K
33K
47K
330K
220K
100/6.3
1/50
220/6.3
223Z
NAETC-8256
U26
THERMAL SENSOR PC BOARD
THERMAL SENSOR
R6380
PTFL04BE471Q
2N34B0(90)
P6301
COM
TH1
JL6402A
JL6402B
+24V
24V
D6307
D6306
R6306
R6307
R6308
Q6303
0V
4.7K
2.2K
JL6804A
JL6803A
JL6805A
TO NAETC-7870
LSPE
RSPE
CSPE
LSSPE
RSSPE
LSP
RSP
CSP
LSSP
RSSP
BRLD
FRLD
CSRLD
P6931
HPL
HPR
E
MPUGND
VOLH/THPRO
SEC1H
SPB
SPCS
SPF
PRO
POWER
RLGND
R6851
R6850
390 (1/2W)
Q6601
Q6603
Q6602
0.05V
0.8V
R6601
R6603
R6602
1K
R6702
C6703
+B1
Q6703
R6701
R6708
33K
R6704
47K
63.1V
Q6701
Q6702
D6703
MTZJ5.1B
D6704
D6701
C6701
C6704
D6702
C6706
R6706
R6709
5.6K
R6710
12K
+13VS
POWER
TO NAETC-7868
AL FOR SAFETY
VOLTAGE.(NO INPUT SIGNAL).
UNLESS OTHERWISE NOTED.
UNLESS OTHERWISE NOTED.
WISE NOTED.
OTED.
WISE NOTED.
OF THE PARTS.

SCHEMATIC DIAGRAM-5
SPEAKER TERMINAL & POWER SUPPLY SECTION





E F G H

NOTE

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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS. EX) ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>
NC=No mount of parts.

CAUTION

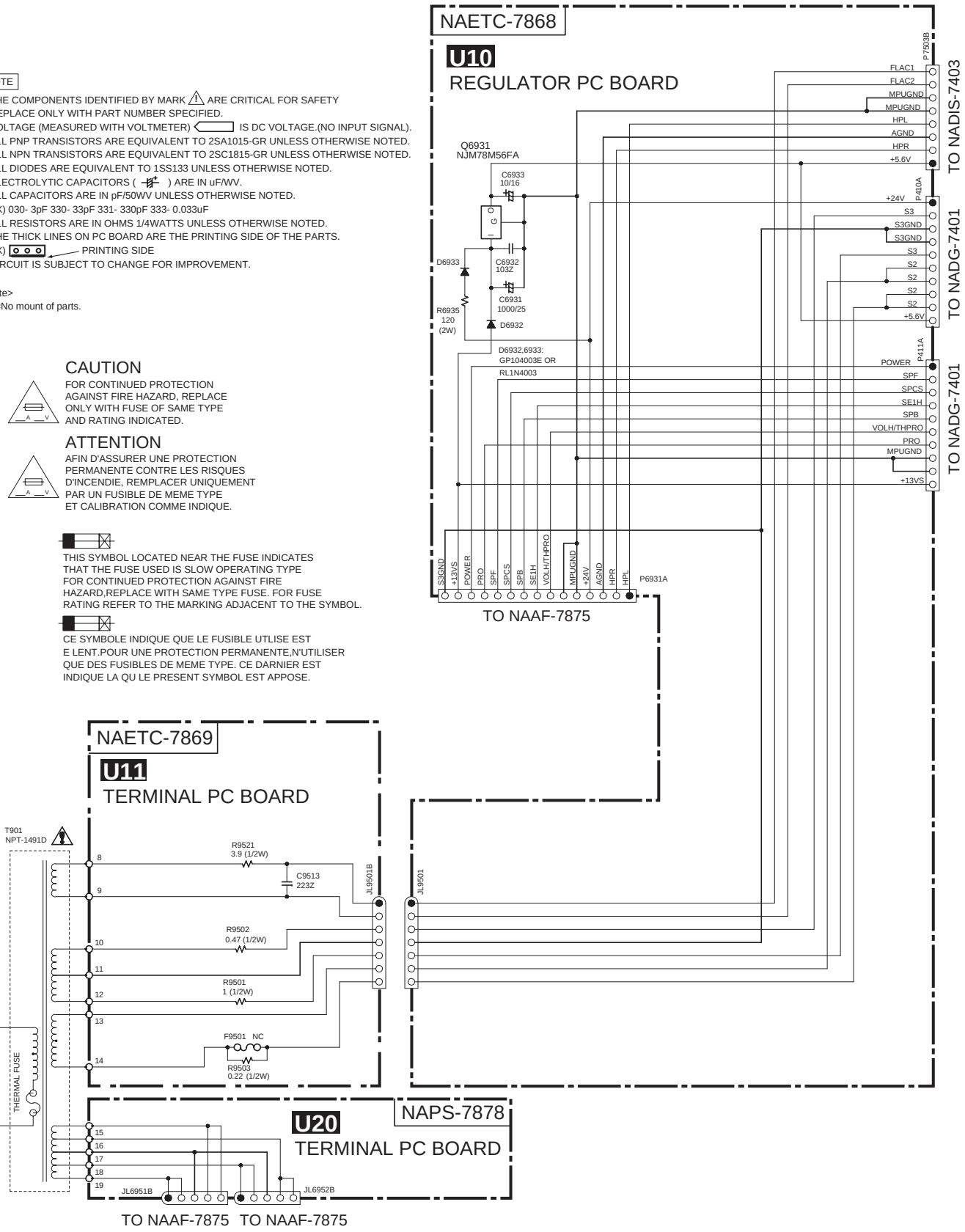
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION

AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

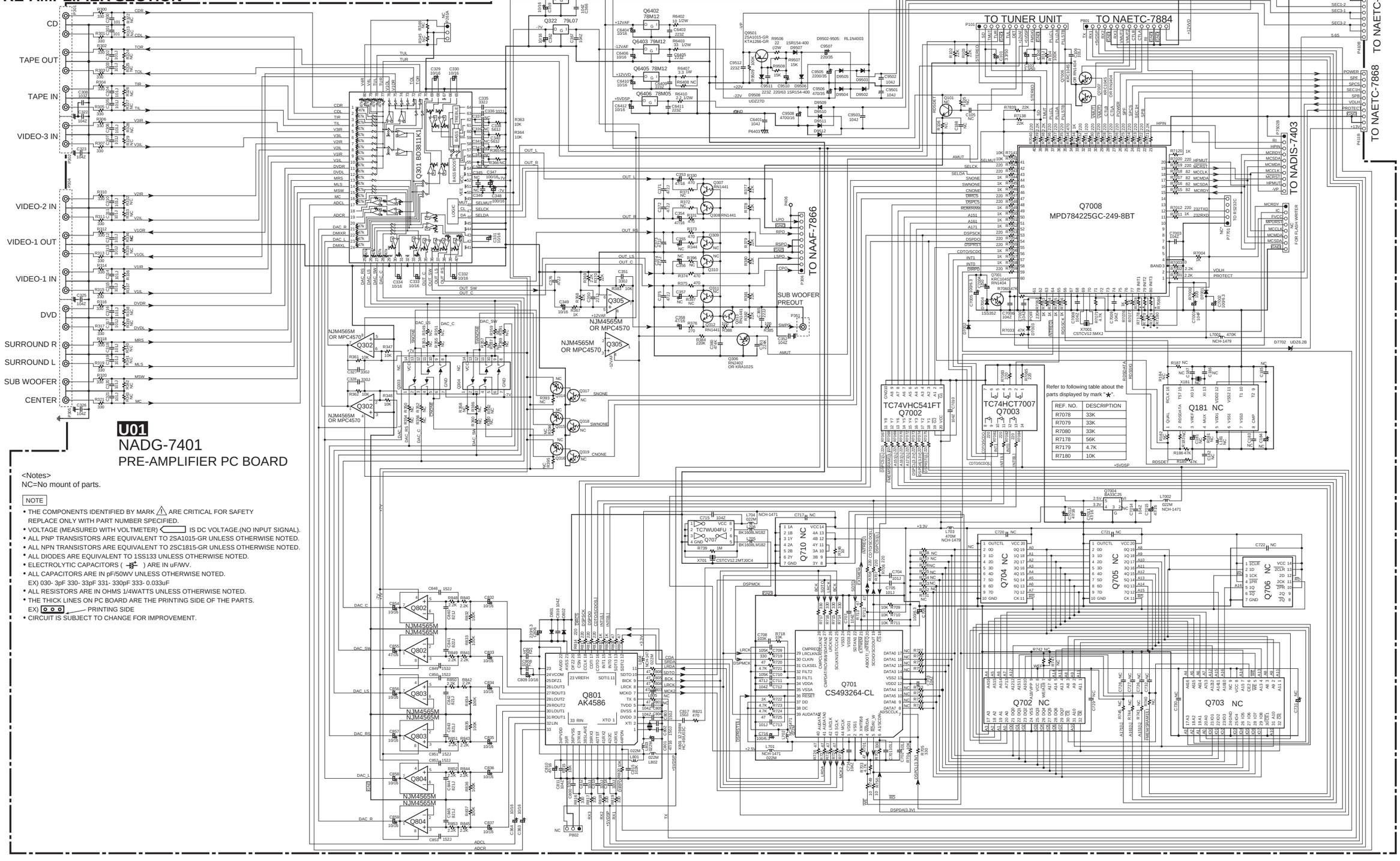
THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT.POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.



SCHEMATIC DIAGRAMS-1

PRE-AMPLIFIER SECTION



<Notes>
NC=No mount of parts.

NOTE

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- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊂⊃ ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAMS-2

DISPLAY & VIDEO SECTION

NADIS-7403

U02
DISPLAY PC BOARD

FL TUBE
Q7501
16BT123GK

Q7502
MPD780232GC-030-8BT

Q7504
RN2403
KRA103S
D7502
UDZ5.1B
D7503
1SS352
R7505
220K
R7502
10K
R7504
47K
SYSOUT
R7506
4.7K
R7507
4.7K
C7507
104Z
X7501
CST5.00MGW
U7501
SPS4441E1
C7514
100/6.3
C7517
102J
C7516
102J
C7515
102J
S7501
MASTER VOLUME
R7581 NC
100K X 14
R7582 NC
100K X 13
R7503
10K
Q7503
2SC2712
KTC3875
R7580 10K X 15
C7501 104Z
C7503 104Z
R7501 220
R7502 220
C7502 3300
C7504 473Z
C7505 473Z
C7506 104Z
D7501 UDZ2.2B
R7531
220
D7505
STANDBY
Q7506
RN1402
KRC102S
D7505
SLR56VRTB7
OR SEL411OR
SYSIN
K0
K1
K2
K3
SBMLDY
SBMDI
SBMDO
SBMCLK
SBMRST
STBYLED
VAJ
VBJ
IRE
S7616
SPEAKERS A
S7615
SPEAKERS B
S7614
STANDBY/ON
R7615
1.2K
R7614
820
R7613
560
JL7501B
JL7501A
KEY0
NASW-7404
U03
SWITCH PC BOARD
R7612 470 — S7613 DIMMER
R7611 330 — S7612 SUB WOOFER MODE
S7611 DIGITAL INPUT
R7626 2.2K — S7627 FM MODE
R7625 1.2K — S7626 VIDEO3
R7624 820 — S7625 VIDEO2
R7623 560 — S7624 VIDEO1
R7622 470 — S7623 DVD
R7621 330 — S7622 AUDIO SELECTOR
S7621 DISPLAY
R7636 2.2K — S7637 TUNER
R7635 1.2K — S7636 TUNER
R7634 820 — S7635 MEMORY
R7633 560 — S7634 TAPE
R7632 470 — S7633 TUNER
R7631 330 — S7632 CD
S7631 SPEAKER ADJUST
R7646 2.2K — S7647 AUDIO ADJUST
R7645 1.2K — S7646 SYSRESET
R7644 820 — S7645 PRESET
R7643 560 — S7644 DSP
R7642 470 — S7643 SURROUND
R7641 330 — S7642 STEREO
S7641 DIRECT
R7519 100K
D7507 1SS352
C7521 220/6.3
L7505 NCH1477 220K
L7504 NCH1477 220K
RL7501 NC
D7504 NC
Q7507 NC
NO USE
JL7502A
P7502A
P7503A
TO NADG-7401
TO NAETC-7868

U25
NAETC-7884
TERMINAL PC BOARD
P205A
+12V
GND
A
B
VMUT2
VMUT1
RI
OPT2
DGND
OPT1
+5V
COAX
OPTOUT
P801B
TO NADG-7401
TO NAVD-7867

NAVD-7867

U09
VIDEO&OPT TERMINAL PC BOARD

LA7956
Q203
VIN4 9
VIN3 8
VCC 7
VIN2 6
GND 5
VIN1 4
B 3
A 2
VIDEO OUT 1
R210 220
Q204 2SA933-S KTA1267-GR
Q201 RN1241
Q202 RN1241
C221 47/16
C222 223Z
P253A
D202
D201
C227 223Z
P201
VIDEO
VIDEO-3 IN
VIDEO-2 IN
OUT
VIDEO-1
IN
DVD IN
MONITOR OUT
P202
R230 680K
C217 2.2/50
R231 75
R207 680K
C201 2.2/50
R201 75
C203 470/16
R205 75
C220 223Z
C202 2.2/50
R202 75
R208 680K
C204 2.2/50
R203 75
R209 680K
C205 470/16
R206 75
R204 100K
L282 NCH-1452 220K
L281 NCH-1452 220K
Q205 KRA102M DTA114ES
R223 100K
Q206 DTA114ES KRA102M
R224 100K
C285 47/6.3
C286 223Z
Q281 74HCU04
C283 223Z
R284 10K
C284 080D
C281 223Z
L283 022M
P281
DIGITAL INPUT COAXIAL
U281
DIGITAL INPUT OPTICAL
R281 75
C282 101J
C287 223Z
C288 47/6.3
R282 470
P282
RI
P206B
+12V
GND
A
B
VMUT2
VMUT1
RI
DGND
OPT1
+5V
COAX
TO NAETC-7884
P210A
NC

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊂⊃ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

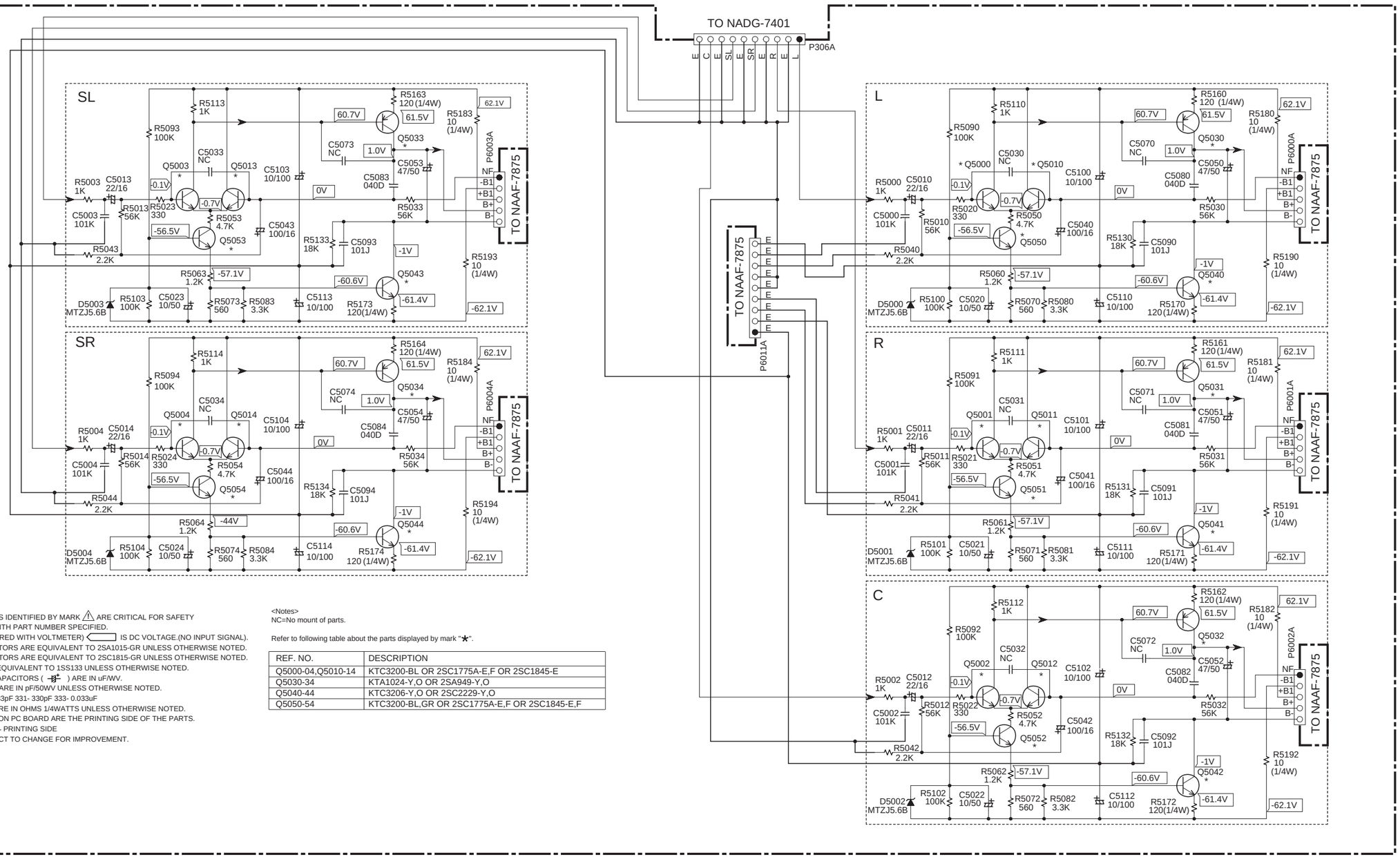
<Note>
NC=No mount of parts.

HPDET
GND
HPL
HPE
HPR
JL7502B
C7518 102J
E7501
NC
L7501 022M
L7502 022M
L7503 022M
C7519 102J
C7520 102J
P7501
PHONES
U04
HEADPHONE JACK PC BOARD
NAETC-7405

SCHEMATIC DIAGRAMS-3
DRIVER AMPLIFIER SECTION

NAAF-7866

U08
DRIVER
AMPLIFIER
PC BOARD



NOTE

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- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊙⊙⊙ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Notes>
NC=No mount of parts.

Refer to following table about the parts displayed by mark "★".

REF. NO.	DESCRIPTION
Q5000-04,Q5010-14	KTC3200-BL OR 2SC1775A-E,F OR 2SC1845-E
Q5030-34	KTA1024-Y,O OR 2SA949-Y,O
Q5040-44	KTC3206-Y,O OR 2SC2229-Y,O
Q5050-54	KTC3200-BL,GR OR 2SC1775A-E,F OR 2SC1845-E,F

SCHEMATIC DIAGRAMS-4

POWER AMPLIFIER SECTION

NAAF-7875 **U17**

POWER AMPLIFIER PC BOARD

Refer to following table about the parts displayed by mark "★".

REF. NO.	DESCRIPTION
Q6010-6014	2SC1740S-R,S
Q6020-6024	2SC1740S-R,S
Q6030-6031	KTD2061-Y OR 2SC5171
Q6040-6041	KTB1369-Y OR 2SA1930
Q6032-6034	KTD2061-Y OR 2SC5171
Q6042-6044	KTB1369-Y OR 2SA1930
Q6050-6051	2SC5242-R,O OR MN150S-Y,P,O
Q6052-6054	MN130S-Y,P,O OR 2SC5242-O,R
Q6060-6061	2SA1962-R,O OR MP150S-Y,P,O
Q6062-6064	MP130S-Y,P,O OR 2SA1962-O,R
Q6070-6074	2SC2631-R,S
Q6601-6603,Q6901	KTC3199-GR,2SC1740S-R,S,2SC2458-GR
Q6701,6702	KTC3200-BL,GR OR 2SC1775A-E,F OR 2SC1845-E,F
Q6703	KTA1268-GR,BL OR 2SA992-E,F
Q6303	KTA1267-GR OR 2SA933S-R,S

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊙⊙⊙ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>
NC=No mount of parts.

NAETC-8256 **U26**

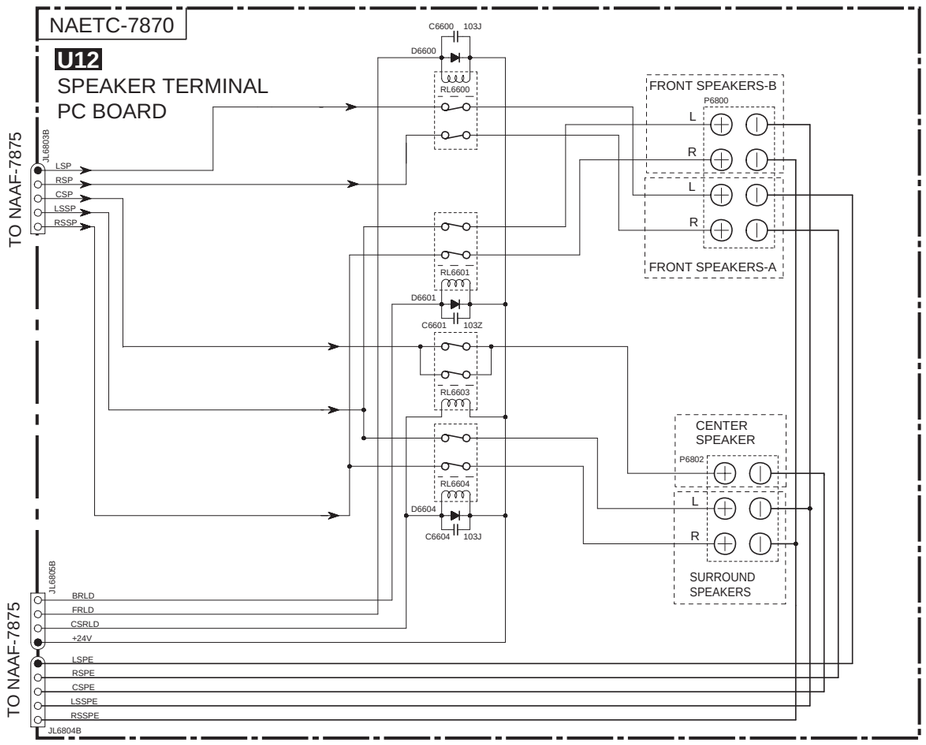
THERMAL SENSOR PC BOARD

TO NAPS-7877

TO NAPS-7878 TO NAPS-7878

TO NAETC-7870 TO NAETC-7870 TO NAETC-7870 TO NAETC-7868

SCHEMATIC DIAGRAM-5
SPEAKER TERMINAL & POWER SUPPLY SECTION



NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ ⟩ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS. EX) ▭▭▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

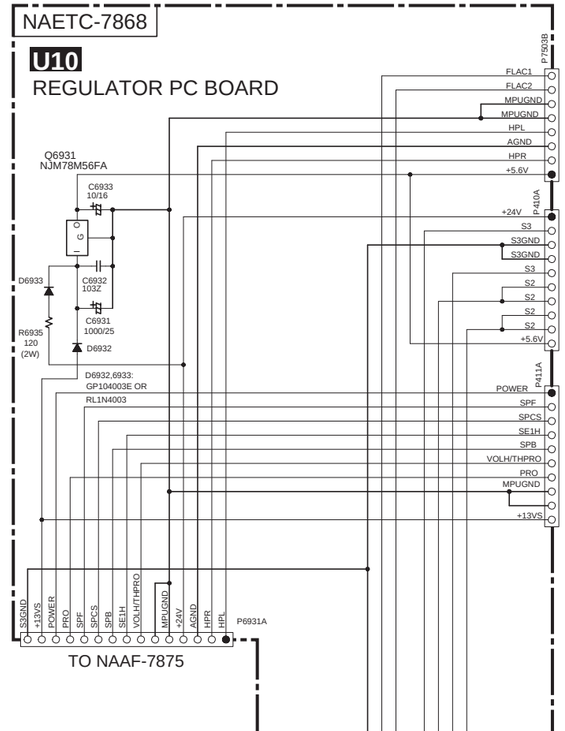
<Note>
NC=No mount of parts.

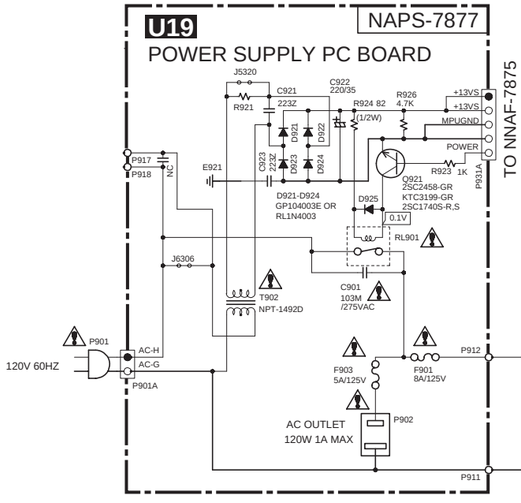
CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

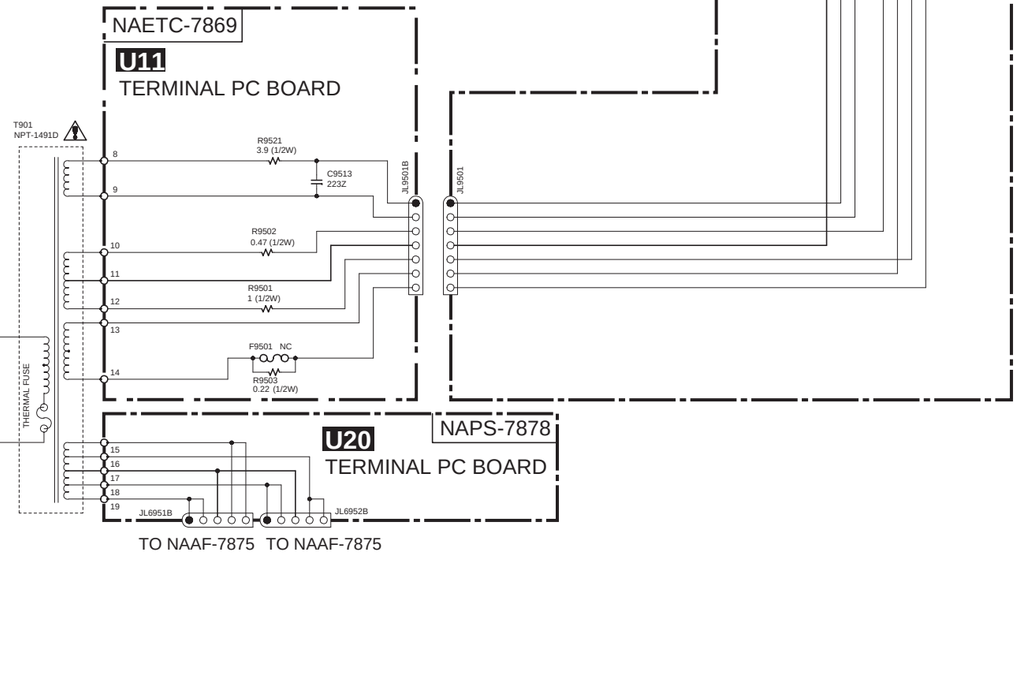
ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT.POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.







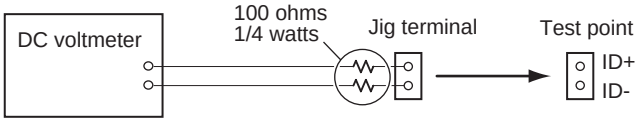
ADJUSTMENT PROCEDURES

IDLING CURRENT ADJUSTMENT

[Note] No load and No signal

Refer to Fig-1 about test points and adjustment points.

1. Before Idling adjustment, turn the trimming resistors R6040, R6041, R6042, R6043 and R6044 to counter clockwise.
2. Connect the DC voltmeter to test point P6080,P6081, P6082, P6083 and P6084.
   Connect 100-ohm resistance near the terminal of the two poles of a Jig terminal.



3. Connect the AC power cord to wall outlet.
4. Press the STANDBY/ON button into the power ON.
5. Adjust the trimming resistors as following procedure immediately after a power ON.

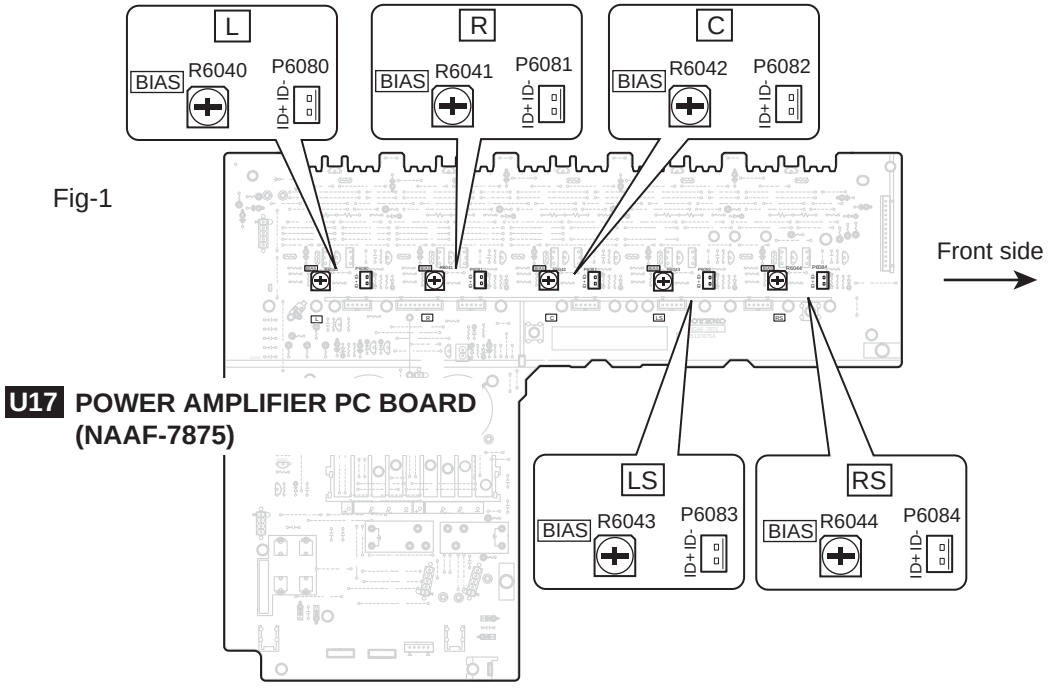
Channel	Trimming resistor (Adjustment point)	Test point (Measuring point)	Adjustment value
L	R6040	P6080	2.5 mV
R	R6041	P6081	2.5 mV
C	R6042	P6082	2.5 mV
SL	R6043	P6083	1.5 mV
SR	R6044	P6084	1.5 mV

6. Wait for 4 - 5 minutes.
7. Re-adjust the trimming resistors as following procedure.

Channel	Adjustment point	Measured value		Adjustment value	Specification
L, R,	R6040, R6041	In case below 7 mV	→	7 mV	10 +/- 3 mV
		In case 7 - 9 mV	→	Leave it as it is	
		In case over 9 mV	→	9 mV	
C	R6042	In case below 4 mV	→	4 mV	10 +/- 3 mV
		In case 4 - 9 mV	→	Leave it as it is	
		In case over 9 mV	→	9 mV	
SL, SR	R6043, R6044	In case below 4 mV	→	4 mV	7 +/- 3 mV
		In case 4 - 6 mV	→	Leave it as it is	
		In case over 6 mV	→	6 mV	

8. Disconnect the DC voltmeter.
9. Press the STANDBY/ON button into the power OFF.
10. Disconnect the AC power cord.

Fig-1



HT-R320

EXPLODED VIEW PARTS LIST

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

	REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO.	REMARKS
EXP.	A002	SCREW	3TTF+8B(BC)	2	835430088	
EXP.	A004	SCREW	3TTB+8B	1	838130088	
EXP.	A005	SCREW	3TTB+10B(BC)	10	838430108	
EXP.	A007	SCREW	3TTB+10B(BC)	3	838430108	
EXP.	A010	CHASSIS	---	1	27100416A	
EXP.	A015	HOLDER	KGLS-8RT	1	27190503A	
EXP.	A016	HOLDER	KGPS-10RF	2	27190813	
EXP.	A017	HOLDER	KGLS-10RT	3	27190428A	
EXP.	A020	SCREW	3TTB+8B	6	838130088	
EXP.	A021	SCREW	3TTB+8B	4	838130088	
EXP.	A022	SCREW	3TTB+8B	1	838130088	
EXP.	A023	SCREW	4TTC+8C(BC)	4	830440089	
EXP.	A024	SCREW	3TTB+8B	1	838130088	
EXP.	A025	RIVET	P-RIVET NRP-345	1	880009	
EXP.	A026	SCREW	3TTW+8B(BC)	1	831430088	
EXP.	A028	BUSHING	S-RELIEF #2271	1	27300750	!
EXP.	A030	HEAT SINK	AS	1	27160501	
EXP.	A035	SCREW	3TTB+8B	1	838130088	
EXP.	A036	SCREW	3TTB+8B	2	838130088	
EXP.	A037	SCREW	3SMS8W.SW+14B(BC)	10	801433	
EXP.	A050	COVER	---	1	28184906	
EXP.	A051	SCREW	3TTB+8B(UN)	6	838930088	
EXP.	A055	LEG	LEG	4	27175319B	
EXP.	A056	CUSHION	---	8	28141494	
EXP.	A057	SCREW	3TTB+8B	4	838130088	
EXP.	A060	KNOB	(VOL)AS	1	28326255	
EXP.	A065	CLEAR PLT	(S)	1	28192046	
EXP.	A401	REAR PANEL	---	1	27123377	
EXP.	A404	SCREW	3TTB+8B(BC)	24	838430088	
EXP.	A410	F PANEL	---	1	27212722	
EXP.	A411	KNOB	(POW)	1	28326250	
EXP.	A412	KNOB	(MODE)	1	28326254	
EXP.	A413	KNOB	(SEL)	1	28326252	
EXP.	A414	KNOB	(PRE)	1	28326253	
EXP.	A415	TAPE	(CU)	1	29110161	
EXP.	A416	TAPE	(CU)	2	29110170	
EXP.	A417	TAPE	(CU)	1	29110171	
EXP.	A418	TAPE	(CU)	1	29110172	
EXP.	A420	BADGE	---	1	28135290	
EXP.	A421	SCREW	3TTW+8B(BC)	3	831430088	
EXP.	A425	LABEL	HOOKUP-ONKYO	1	29363194	
EXP.	A435	LABEL	(POP)	1	O	
EXP.	F6901	FUSE	8A-UL	1	252198	!
EXP.	F6901 or	FUSE	8A-T/UL-ST2	(1)	252261	!

EXP.	F6902	FUSE	8A-UL	1	252198	!
EXP.	F6902 or	FUSE	8A-T/UL-ST2	(1)	252261	!
EXP.	F901	FUSE	8A-UL	1	252198	!
EXP.	F901 or	FUSE	8A-T/UL-ST2	(1)	252261	!
EXP.	F903	FUSE	5A-UL/T-237	1	252164	!
EXP.	F903 or	FUSE	5A-T/UL-ST2	(1)	252258	!
EXP.	P101	FFC	NCFC7-151512	1	2047151512	
EXP.	P7502	FFC	NCFC5-102012	1	2045102012	
EXP.	P7503	FFC	NCFC7-081012	1	2047081012	
EXP.	P800	WIRE TIE	BSK-1	8	260208	
EXP.	P901	AC CORD	AS-UC-2	1	253368LTK	!
EXP.	P901 or	AC CORD	AS-UC-2	(1)	253332HIT	!
EXP.	P901 or	AC CORD	AS-UC-2	(1)	253333VOL	!
EXP.	Q6050	TR	2SC5242-O	1	2202843	
EXP.	Q6050 or	TR	2SC5242-R	(1)	2202842	
EXP.	Q6050 or	TR	MN150S-Y	(1)	2203684	
EXP.	Q6050 or	TR	MN150S-P	(1)	2203686	
EXP.	Q6050 or	TR	MN150S-O	(1)	2203683	
EXP.	Q6050A	ISO SHEET	AC238	10	223024	
EXP.	Q6051	TR	2SC5242-O	1	2202843	
EXP.	Q6051 or	TR	2SC5242-R	(1)	2202842	
EXP.	Q6051 or	TR	MN150S-Y	(1)	2203684	
EXP.	Q6051 or	TR	MN150S-P	(1)	2203686	
EXP.	Q6051 or	TR	MN150S-O	(1)	2203683	
EXP.	Q6052	TR	MN130S-Y	1	2203664	
EXP.	Q6052 or	TR	MN130S-P	(1)	2203666	
EXP.	Q6052 or	TR	MN130S-O	(1)	2203663	
EXP.	Q6052 or	TR	2SC5242-O	(1)	2202843	
EXP.	Q6052 or	TR	2SC5242-R	(1)	2202842	
EXP.	Q6053	TR	MN130S-Y	1	2203664	
EXP.	Q6053 or	TR	MN130S-P	(1)	2203666	
EXP.	Q6053 or	TR	MN130S-O	(1)	2203663	
EXP.	Q6053 or	TR	2SC5242-O	(1)	2202843	
EXP.	Q6053 or	TR	2SC5242-R	(1)	2202842	
EXP.	Q6054	TR	MN130S-Y	1	2203664	
EXP.	Q6054 or	TR	MN130S-P	(1)	2203666	
EXP.	Q6054 or	TR	MN130S-O	(1)	2203663	
EXP.	Q6054 or	TR	2SC5242-O	(1)	2202843	
EXP.	Q6054 or	TR	2SC5242-R	(1)	2202842	
EXP.	Q6060	TR	2SA1962-O	1	2202833	
EXP.	Q6060 or	TR	2SA1962-R	(1)	2202832	
EXP.	Q6060 or	TR	MP150S-Y	(1)	2203694	
EXP.	Q6060 or	TR	MP150S-P	(1)	2203696	
EXP.	Q6060 or	TR	MP150S-O	(1)	2203693	
EXP.	Q6061	TR	2SA1962-O	1	2202833	
EXP.	Q6061 or	TR	2SA1962-R	(1)	2202832	
EXP.	Q6061 or	TR	MP150S-Y	(1)	2203694	
EXP.	Q6061 or	TR	MP150S-P	(1)	2203696	
EXP.	Q6061 or	TR	MP150S-O	(1)	2203693	
EXP.	Q6062	TR	MP130S-Y	1	2203674	
EXP.	Q6062 or	TR	MP130S-P	(1)	2203676	
EXP.	Q6062 or	TR	MP130S-O	(1)	2203673	
EXP.	Q6062 or	TR	2SA1962-O	(1)	2202833	
EXP.	Q6062 or	TR	2SA1962-R	(1)	2202832	
EXP.	Q6063	TR	MP130S-Y	1	2203674	

EXP.	Q6063 or	TR	MP130S-P	(1)	2203676	
EXP.	Q6063 or	TR	MP130S-O	(1)	2203673	
EXP.	Q6063 or	TR	2SA1962-O	(1)	2202833	
EXP.	Q6063 or	TR	2SA1962-R	(1)	2202832	
EXP.	Q6064	TR	MP130S-Y	1	2203674	
EXP.	Q6064 or	TR	MP130S-P	(1)	2203676	
EXP.	Q6064 or	TR	MP130S-O	(1)	2203673	
EXP.	Q6064 or	TR	2SA1962-O	(1)	2202833	
EXP.	Q6064 or	TR	2SA1962-R	(1)	2202832	
EXP.	T901	P TRANS	NPT-1491D	1	2301738	!
EXP.	U01	PREAMPLIFIER PCB ASSY	NADG-7401-3E	1	1A978501-3E	
EXP.	U02	DISPLAY PCB ASSY	NADIS-7403-3B	1	1A978503-3B	
EXP.	U03	SWITCH PCB ASSY	NASW-7404-3B	1	1A978504-3B	
EXP.	U04	HEADPHONE JACK PCB ASSY	NAETC-7405-3B	1	1A978505-3B	
EXP.	U08	DRIVER AMPLIFIER PCB ASSY	NAAF-7866-3A	1	1A978566-3A	
EXP.	U09	VIDEO & OPT TERMINAL PCB ASSY	NAVD-7867-3A	1	1A978567-3A	
EXP.	U10	REGULATOR PCB ASSY	NAETC-7868-3A	1	1A978568-3A	
EXP.	U11	TERMINAL PCB ASSY	NAETC-7869-3A	1	1A978569-3A	
EXP.	U12	SPEAKER TERMINAL PCB ASSY	NAETC-7870-3A	1	1A978570-3A	
EXP.	U17	POWER AMPLIFIER PCB ASSY	NAAF-7875-2B	1	1A978575-2B	
EXP.	U18	TERMINAL PCB ASSY	NAPS-7876-2B	1	1A978576-2B	
EXP.	U19	POWER SUPPLY PCB ASSY	NAPS-7877-2B	1	1A978577-2B	
EXP.	U20	TERMINAL PCB ASSY	NAPS-7878-2B	1	1A978578-2B	
EXP.	U23	HOLDER PCB ASSY	NAETC-7881-2B	1	1A978581-2B	
EXP.	U25	TERMINAL PCB ASSY	NAETC-7884-2B	1	1A978584-2B	
EXP.	U26	THERMAL SENSOR PCB ASSY	NAETC-7856-2B	1	1A978556-2B	
EXP.	U27	TUNER UNIT	TFCE1U114B	1	240134A	
EXP.	U27 or	TUNER UNIT	FAE385-A02F	(1)	240146	
EXP.	U27 or	TUNER UNIT	ENG06501QR	(1)	240138A	

<Notes>

When replacement the following the transistor,made from the same HE rank as the original type.

Q6050 - Q6054, Q6060 - Q6064

PRINTED CIRCUIT BOARD PARTS LIST

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

U1 PREAMPLIFIER PC BOARD (NADG-7401-3E)

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO.	REMARKS
PCB1	Q301	IC	BD3811K1	1	22241761R3	
PCB1	Q302	IC	NJM4565M-D	1	22241383R2	
PCB1	Q302 or	IC	MPC4570G2-T1(MST)	(1)	22240489R1NE	
PCB1	Q302 or	IC	NJM4565M	(1)	22240581R2	
PCB1	Q305	IC	NJM4565M-D	1	22241383R2	
PCB1	Q305 or	IC	MPC4570G2-T1(MST)	(1)	22240489R1NE	
PCB1	Q305 or	IC	NJM4565M	(1)	22240581R2	
PCB1	Q306	TR	RN2402	1	2214530R2	
PCB1	Q306 or	TR	KRA102S	(1)	2216220R2	
PCB1	Q307	TR	RN1441	1	2215410R2	
PCB1	Q308	TR	RN1441	1	2215410R2	
PCB1	Q312	TR	RN1441	1	2215410R2	

PCB1	Q313	TR	RN1441	1	2215410R2
PCB1	Q321	IC(REGULATOR)	78L07(SMT)	1	222780073R2
PCB1	Q322	IC(REGULATOR)	79L07(SMT)	1	222790073R2
PCB1	Q701	IC	CS493264	1	22241762R2
PCB1	Q707	IC	TC7WU04FU	1	22240935R2
PCB1	Q801	IC	AK4586	1	22241620R3
PCB1	Q802	IC	NJM4565M-D	1	22241383R2
PCB1	Q802 or	IC	MPC4570G2-T1(MST)	(1)	22240489R1NE
PCB1	Q802 or	IC	NJM4565M	(1)	22240581R2
PCB1	Q803	IC	NJM4565M-D	1	22241383R2
PCB1	Q803 or	IC	MPC4570G2-T1(MST)	(1)	22240489R1NE
PCB1	Q803 or	IC	NJM4565M	(1)	22240581R2
PCB1	Q804	IC	NJM4565M-D	1	22241383R2
PCB1	Q804 or	IC	MPC4570G2-T1(MST)	(1)	22240489R1NE
PCB1	Q804 or	IC	NJM4565M	(1)	22240581R2
PCB1	Q6402	IC(REGURATOR)	7812HF(TA7812S)	1	222780124TOS
PCB1	Q6402 or	IC(REGULATOR)	78M12HF	(1)	222780125
PCB1	Q6402A	SCREW	3P+10FN(BC)	1	82143010
PCB1	Q6402B	HEAT SINK	RAD-183	1	27160526
PCB1	Q6402C	TAPE	TAPE(CLOTH-16U)	1	29110083
PCB1	Q6403	IC(REGURATOR)	79012HF(TA79012S)	1	222790124TOS
PCB1	Q6403 or	IC(REGULATOR)	79M12HF	(1)	222790125
PCB1	Q6405	IC(REGURATOR)	7812HF(TA7812S)	1	222780124TOS
PCB1	Q6405 or	IC(REGULATOR)	78M12HF	(1)	222780125
PCB1	Q6405A	SCREW	3P+10FN(BC)	1	82143010
PCB1	Q6406	IC(REGURATOR)	7805HF(TA7805S)	1	222780054TOS
PCB1	Q6406 or	IC(REGULATOR)	78M05HF	(1)	222780055
PCB1	Q6406A	SCREW	3P+10FN(BC)	1	82143010
PCB1	Q7001	TR	RN1404	1	2214490R2
PCB1	Q7001 or	TR	KRC104S	(1)	2216210R2
PCB1	Q7002	IC	TC74VHC541FT	1	22274541ER2TO
PCB1	Q7002 or	IC	SN74AHC541PWR	(1)	22274541IR2TI
PCB1	Q7003	IC	TC74HCT7007AF	1	222740077R2TO
PCB1	Q7004	IC	BA33C25FP	1	22241778R2
PCB1	Q7006	TR	RN1404	1	2214490R2
PCB1	Q7006 or	TR	KRC104S	(1)	2216210R2
PCB1	Q7007	TR	RN1404	1	2214490R2
PCB1	Q7007 or	TR	KRC104S	(1)	2216210R2
PCB1	Q7008	IC	MPD784225GC-249-8BT	1	22242149R3
PCB1	Q9501	TR	2SA1015-GR	1	2211455
PCB1	D801	C-DIODE	1SS352	1	223234R2
PCB1	D801 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D802	C-DIODE	1SS352	1	223234R2
PCB1	D802 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D7001	C-DIODE	1SS352	1	223234R2
PCB1	D7001 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D7002	C-DIODE	1SS352	1	223234R2
PCB1	D7002 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D7003	C-DIODE	1SS352	1	223234R2
PCB1	D7003 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D7004	C-DIODE	1SS352	1	223234R2
PCB1	D7004 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D7702	ZENER D	UDZS6.2B	1	224550620R2
PCB1	D7702 or	ZENER D	UDZ6.2B	(1)	224490620R2
PCB1	D7702 or	ZENER D	HZU6.2B	(1)	224660624R2

PCB1	D9502	DIODE	RL1N4003	1	22380260
PCB1	D9502 or	DIODE	GP104003E	(1)	22380035
PCB1	D9502 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9503	DIODE	RL1N4003	1	22380260
PCB1	D9503 or	DIODE	GP104003E	(1)	22380035
PCB1	D9503 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9504	DIODE	RL1N4003	1	22380260
PCB1	D9504 or	DIODE	GP104003E	(1)	22380035
PCB1	D9504 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9505	DIODE	RL1N4003	1	22380260
PCB1	D9505 or	DIODE	GP104003E	(1)	22380035
PCB1	D9505 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9506	DIODE	RL1N4003	1	22380260
PCB1	D9506 or	DIODE	GP104003E	(1)	22380035
PCB1	D9506 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9507	DIODE	RL1N4003	1	22380260
PCB1	D9507 or	DIODE	GP104003E	(1)	22380035
PCB1	D9507 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9508	ZENER D	UDZS27B	1	224552700R2
PCB1	D9508 or	ZENER D	UDZ27B	(1)	224492700R2
PCB1	D9508 or	ZENER D	HZU27B	(1)	224662704R2
PCB1	D9509	DIODE	RL1N4003	1	22380260
PCB1	D9509 or	DIODE	GP104003E	(1)	22380035
PCB1	D9509 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9510	DIODE	RL1N4003	1	22380260
PCB1	D9510 or	DIODE	GP104003E	(1)	22380035
PCB1	D9510 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9511	DIODE	RL1N4003	1	22380260
PCB1	D9511 or	DIODE	GP104003E	(1)	22380035
PCB1	D9511 or	DIODE	1SR139-100	(1)	22380032
PCB1	D9512	DIODE	RL1N4003	1	22380260
PCB1	D9512 or	DIODE	GP104003E	(1)	22380035
PCB1	D9512 or	DIODE	1SR139-100	(1)	22380032
PCB1	L701	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L701 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L702	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L702 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L704	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L704 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L705	EMIFIL	BK1608LM182-T	1	230958R1
PCB1	L706	EMIFIL	BK1608LM182-T	1	230958R1
PCB1	L801	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L801 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L802	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L802 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L803	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L803 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L804	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L804 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	L7001	CHOKE COIL	NCH-1479	1	231237K470R2
PCB1	L7001 or	CHOKE COIL	NCH-1587-470K	(1)	233533K470R2
PCB1	L7002	CHOKE COIL	NCH-1471	1	231237M022R2
PCB1	L7002 or	CHOKE COIL	NCH-1587-022K	(1)	233533K022R2
PCB1	X7001	CERA LOCK	CSTCE12M5G52-R0	1	3010361R2
PCB1	X701	CERA LOCK	CSTCV12.2MTJ0C4	1	3010324R2

PCB1	C101	VR C	CE04W50V-3.3M(VR)	1	394680337
PCB1	C101 or	ELECT C	CE04W50V3.3M(SC)	(1)	394780337
PCB1	C103	VR C	CE04W50V-3.3M(VR)	1	394680337
PCB1	C103 or	ELECT C	CE04W50V3.3M(SC)	(1)	394780337
PCB1	C104	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C106	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C300	TF C	ECQ-B50V-101K	1	374721015
PCB1	C301	TF C	ECQ-B50V-101K	1	374721015
PCB1	C302	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C303	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C304	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C305	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C306	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C307	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C308	CERA C	CK45F50V-103Z	1	335621030
PCB1	C310	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C311	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C312	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C313	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C314	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C315	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C316	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C317	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C318	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C319	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C320	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C321	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C322	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C323	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C325	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C326	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C327	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C328	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C329	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C330	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C331	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C332	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C333	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C334	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C335	C-FILM C	ECHU16V-332J	1	373043324R2
PCB1	C336	C-FILM C	ECHU16V-332J	1	373043324R2
PCB1	C338	C-FILM C	ECHU16V-563J	1	373045634R2
PCB1	C340	C-FILM C	ECHU16V-563J	1	373045634R2
PCB1	C347	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C347 or	ELECT C	CE04W16V100M(SC)	(1)	394741017
PCB1	C348	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C348 or	ELECT C	CE04W16V100M(SC)	(1)	394741017
PCB1	C349	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C350	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB1	C351	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C352	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C353	VX C	CE04W16V-47M(VX)	1	393344707
PCB1	C354	VX C	CE04W16V-47M(VX)	1	393344707
PCB1	C358	VX C	CE04W16V-47M(VX)	1	393344707
PCB1	C359	VR C	CE04W16V-10M(VR)	1	394641007

PCB1	C359 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C360	C-CERA C	CK732B1C-474K	1	337394745R1
PCB1	C362	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C362 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C363	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C364	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C365	C-CERA C	CC732CH1H-222J	1	347342224R2
PCB1	C366	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C367	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C703	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C706	VR C	CE04W6.3V-100M(VR)	1	394621017
PCB1	C706 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017
PCB1	C707	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C708	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB1	C709	C-CERA C	CK732B1A-105K	1	337361055R2
PCB1	C710	C-CERA C	CK732B1A-105K	1	337361055R2
PCB1	C711	C-CERA C	CC725CH1H-471J1	1	342104714R1
PCB1	C712	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C713	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C714	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C715	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C716	VR C	CE04W6.3V-100M(VR)	1	394621017
PCB1	C716 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017
PCB1	C800	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C801	VR C	CE04W16V-47M(VR)	1	394644707
PCB1	C801 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB1	C804	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C805	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C806	VR C	CE04W6.3V-470M(VR)	1	394624717
PCB1	C806 or	ELECT C	CE04W6.3V470M(SC)	(1)	394724717
PCB1	C807	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C808	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C809	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C809 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C810	VR C	CE04W16V-47M(VR)	1	394644707
PCB1	C810 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB1	C811	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C812	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C813	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C814	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C815	C-CERA C	CC725CH1H-102J1	1	342101024R1
PCB1	C816	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C817	C-CERA C	CC725CH1H-150J1	1	342101504R1
PCB1	C832	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C833	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C834	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C835	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C836	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C837	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C840	C-CERA C	CC725CH1E-821J1	1	342118214R1
PCB1	C841	C-FILM C	ECHU16V-822J	1	373048224R2
PCB1	C842	C-CERA C	CC725CH1E-821J1	1	342118214R1
PCB1	C843	C-CERA C	CC725CH1E-821J1	1	342118214R1
PCB1	C844	C-CERA C	CC725CH1E-821J1	1	342118214R1
PCB1	C845	C-CERA C	CC725CH1E-821J1	1	342118214R1

PCB1	C848	C-CERA C	CC732CH1H-152J	1	347341524R1
PCB1	C849	C-FILM C	ECHU16V-153J	1	373041534R2
PCB1	C850	C-CERA C	CC732CH1H-152J	1	347341524R1
PCB1	C851	C-CERA C	CC732CH1H-152J	1	347341524R1
PCB1	C852	TF C	ECQ-B50V-152J	1	374721524
PCB1	C853	TF C	ECQ-B50V-152J	1	374721524
PCB1	C854	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C855	VX C	CE04W16V-47M(VX)	1	393344707
PCB1	C856	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C857	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C858	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C859	VX C	CE04W16V-10M(VX)	1	393341007
PCB1	C6401	TF C	ECQ-V50V-104J	1	374721044
PCB1	C6403	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	C6404	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C6404 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C6405	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	C6406	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C6406 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C6409	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	C6410	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C6410 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C6411	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	C6412	VR C	CE04W16V-10M(VR)	1	394641007
PCB1	C6412 or	ELECT C	CE04W16V10M(SC)	(1)	394741007
PCB1	C7001	EDL C	DX-5R5L104	1	3000078
PCB1	C7001 or	EDL C	FMC0H104Z	(1)	3000120
PCB1	C7001 or	EDL C	SCDA5R5104A	(1)	3000121
PCB1	C7002	VR C	CE04W6.3V-100M(VR)	1	394621017
PCB1	C7002 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017
PCB1	C7003	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7004	VR C	CE04W50V-1M(VR)	1	394680107
PCB1	C7004 or	ELECT C	CE04W50V1.0M(SC)	(1)	394780107
PCB1	C7005	VR C	CE04W6.3V-100M(VR)	1	394621017
PCB1	C7005 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017
PCB1	C7006	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7007	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7008	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7009	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7010	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7011	VR C	CE04W16V-47M(VR)	1	394644707
PCB1	C7011 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB1	C7012	VR C	CE04W16V-47M(VR)	1	394644707
PCB1	C7012 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB1	C7014	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C7015	VR C	CE04W16V-47M(VR)	1	394644707
PCB1	C7015 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB1	C9501	TF C	ECQ-V50V-104J	1	374721044
PCB1	C9502	TF C	ECQ-V50V-104J	1	374721044
PCB1	C9503	TF C	ECQ-V50V-104J	1	374721044
PCB1	C9505	VR C	CE04W35V-2200M(VR)	1	394662227S
PCB1	C9505 or	ELECT C	CE04W35V2200M(SC)	(1)	394762227S
PCB1	C9506	VR C	CE04W35V-470M(VR)	1	394664717
PCB1	C9506 or	ELECT C	CE04W35V470M(SC)	(1)	394764717
PCB1	C9507	VR C	CE04W35V-220M(VR)	1	394662217

PCB1	C9507 or	ELECT C	CE04W35V220M(SC)	(1)	394762217
PCB1	C9508	VR C	CE04W16V-4700M(VR)	1	394644727S
PCB1	C9508 or	ELECT C	CE04W16V4700M(SC)	(1)	394744727S
PCB1	C9510	VR C	CE04W63V-220M(VR)	1	394672217
PCB1	C9511	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	C9512	C-CERA C	CK725F1H-223Z1	1	332152230R1
PCB1	R102	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R103	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R104	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R185	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R186	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R187	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R300	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R301	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R302	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R303	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R304	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R305	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R306	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R307	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R310	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R311	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R312	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R313	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R314	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R315	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R316	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R317	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R318	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R319	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R320	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R321	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R330	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R331	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R347	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R348	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R359	C-CARBON R	RN72K1J-271JE	1	435032714R1
PCB1	R360	C-CARBON R	RN72K1J-271JE	1	435032714R1
PCB1	R361	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R362	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R363	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R364	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R367	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R368	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R369	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R370	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R373	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R374	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R375	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R376	C-CARBON R	RN72K1J-271JE	1	435032714R1
PCB1	R377	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R378	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R379	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R380	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R381	C-CARBON R	RN72K1J-223JE	1	435032234R1

PCB1	R382	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R383	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R384	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB1	R385	C-CARBON R	RN72K1J-101JE	1	435031014R1
PCB1	R386	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB1	R387	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB1	R388	C-CARBON R	RN72K1J-101JE	1	435031014R1
PCB1	R701	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R702	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R703	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R704	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R705	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R706	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R707	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R708	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R709	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R710	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R711	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R712	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R713	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R714	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R715	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R716	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R717	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R718	C-CARBON R	RN72K1J-333JE	1	435033334R1
PCB1	R719	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R720	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R721	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R722	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R723	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R724	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R725	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R726	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R727	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R728	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R729	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R739	C-CARBON R	RN72K1J-105JE	1	435031054R1
PCB1	R803	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R804	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R805	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R806	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R807	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R808	C-CARBON R	RN72K1J-470JE	1	435034704R1
PCB1	R809	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R810	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R811	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R812	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R813	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R814	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R815	C-CARBON R	RN72K1J-183JE	1	435031834R1
PCB1	R816	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R817	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R818	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R819	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB1	R820	C-CARBON R	RN72K1J-103JE	1	435031034R1

PCB1	R821	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R832	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R833	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R834	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R835	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R836	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R837	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	R840	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R841	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R842	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R843	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R844	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R845	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R848	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R849	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R850	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R851	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R852	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R853	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R6402	METAL O R	RS1/2WBJ-10	1	442521004F
PCB1	R6403	METAL O R	RS1/2WBJ-33	1	442523304F
PCB1	R6407	METAL R	RNU1WCJ-3.3	1	452630334F
PCB1	R6410	METAL R	RNU1/2WCJ-2.2	1	453530224
PCB1	R7000	C-CARBON R	RN72K1J-101JE	1	435031014R1
PCB1	R7001	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R7002	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R7003	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB1	R7011	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7012	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7015	C-CARBON R	RN72K1J-820JE	1	435038204R1
PCB1	R7016	C-CARBON R	RN72K1J-820JE	1	435038204R1
PCB1	R7017	C-CARBON R	RN72K1J-820JE	1	435038204R1
PCB1	R7018	C-CARBON R	RN72K1J-820JE	1	435038204R1
PCB1	R7019	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7020	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7021	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R7022	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7023	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7024	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7025	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7026	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7027	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7028	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7029	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7030	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7033	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R7034	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB1	R7035	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7036	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7037	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7038	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R7039	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R7040	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7041	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R7042	C-CARBON R	RN72K1J-221JE	1	435032214R1

PCB1	R7043	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7044	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7045	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7046	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7047	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7048	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7049	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7050	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7051	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7052	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7053	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7054	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7055	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7056	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7057	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7058	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7059	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7060	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB1	R7062	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB1	R7063	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7064	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7065	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7066	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7067	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7068	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7069	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7070	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7071	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R7072	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7073	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7074	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7075	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7076	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7077	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7078	C-CARBON R	RN72K1J-333JE	1	435033334R1
PCB1	R7079	C-CARBON R	RN72K1J-333JE	1	435033334R1
PCB1	R7080	C-CARBON R	RN72K1J-333JE	1	435033334R1
PCB1	R7081	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7082	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7083	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7084	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7085	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB1	R7120	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7134	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB1	R7138	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R7178	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB1	R7179	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB1	R7180	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB1	R7839	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB1	R9506	METAL O R	RS1/2WBJ-22	1	443522204
PCB1	R9507	C-CARBON R	RN72K1J-153JE	1	435031534R1
PCB1	R9508	C-CARBON R	RN72K1J-153JE	1	435031534R1
PCB1	R9509	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB1	P101	SOCKET	NSCT-15P2108	1	25052211
PCB1	P101 or	SOCKET	NSCT-15P1811	(1)	25052024

PCB1	P301	PIN JACK	NPJ-6PDRW386	1	25045571
PCB1	P301 or	JACK	NPJ-6PDBL159	(1)	25045300
PCB1	P301 or	PIN JACK	NPJ-6PDWWWRRR561	(1)	25045779
PCB1	P302	JACK	NPJ-2PDBL185	1	25045333
PCB1	P302 or	PIN JACK	NPJ-2PDWR558	(1)	25045776
PCB1	P304	PIN JACK	NPJ-6PDRW386	1	25045571
PCB1	P304 or	JACK	NPJ-6PDBL159	(1)	25045300
PCB1	P304 or	PIN JACK	NPJ-6PDWWWRRR561	(1)	25045779
PCB1	P305	PIN JACK	NPJ-6PWRLGGP493	1	25045697
PCB1	P305 or	PIN JACK	NPJ-6PDWLGREP562	(1)	25045780
PCB1	P306	SOCKET AS	NSAS-20P1004	1	2009990717UL
PCB1	P351	PIN JACK	NPJ-1PDP510	1	25045720
PCB1	P351 or	PIN JACK	NPJ-1PDP555	(1)	25045773
PCB1	P410B	PLUG	NPLG-10P662	1	25055706
PCB1	P411B	PLUG	NPLG-10P662	1	25055706
PCB1	P412B	PLUG	NPLG-8P660	1	25055704
PCB1	P6403	RETAINER	KANAGU	1	27141059
PCB1	P7502B	SOCKET	NSCT-10P2473	1	25052576R2
PCB1	P801	PLUG	NPLG-14P666	1	25055710
PCB1	E300	RETAINER	KANAGU	1	27141059

U2 DISPLAY PC BOARD (NADIS-7403-3B)
U3 SWITCH PC BOARD (NASW-7404-3B)
U4 HEADPHONE JACK PC BOARD (NAETC-7405-3B)

<Note> The parts of each PC board are indicated collectively.

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO.	REMARKS
PCB2	U7501	REMO SENS	SPS-444-1-VP	1	241352	
PCB2	Q7501	FL TUBE	16BT123GK	1	212250	
PCB2	Q7501A	HOLDER	(FL)	1	27190989B	
PCB2	Q7502	IC	MPD780232GC-030-8BT	1	22241571R3	
PCB2	Q7503	TR	KTC3875-GR	1	2216175R2	
PCB2	Q7503 or	TR	2SC2712-GR	(1)	2213145R2	
PCB2	Q7504	TR	KRA103S	1	2216230R2	
PCB2	Q7504 or	TR	RN2403	(1)	2214540R2	
PCB2	Q7506	TR	KRC102S	1	2216190R2	
PCB2	Q7506 or	TR	RN1402	(1)	2214470R2	
PCB2	D7501	ZENER D	UDZS8.2B	1	224550820R2	
PCB2	D7501 or	ZENER D	UDZ8.2B	(1)	224490820R2	
PCB2	D7501 or	ZENER D	HZU8.2B	(1)	224660824R2	
PCB2	D7502	ZENER D	UDZS5.1B	1	224550510R2	
PCB2	D7502 or	ZENER D	UDZ5.1B	(1)	224490510R2	
PCB2	D7502 or	ZENER D	HZU5.1B	(1)	224660514R2	
PCB2	D7503	C-DIODE	1SS355	1	223269R2	
PCB2	D7503 or	C-DIODE	1SS352	(1)	223234R2	
PCB2	D7505	LED	SLR-56VRTB7	1	225431	
PCB2	D7505 or	LED	SEL4110R	(1)	225290	
PCB2	D7507	C-DIODE	1SS355	1	223269R2	
PCB2	D7507 or	C-DIODE	1SS352	(1)	223234R2	
PCB2	L7504	CHOKE COIL	NCH-1477	1	231237K220R2	
PCB2	L7505	CHOKE COIL	NCH-1477	1	231237K220R2	
PCB2	X7501	CERA LOCK	CST5.00MGW	1	3010242	
PCB2	C7501	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB2	C7502	ELECT C	CE04W50V-33M	1	355783309	
PCB2	C7503	C-CERA C	CK725F1E-104Z1	1	332161040R1	

PCB2	C7504	C-CERA C	CK725F1H-473Z1	1	332154730R1
PCB2	C7505	C-CERA C	CK725F1H-473Z1	1	332154730R1
PCB2	C7506	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB2	C7507	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB2	C7508	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7509	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7510	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7511	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7513	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB2	C7514	VR C	CE04W6.3V-100M(VR)	1	394621017
PCB2	C7514 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017
PCB2	C7515	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB2	C7516	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB2	C7517	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7518	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7519	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7520	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	C7521	ELECT C	CE04W6.3V-220M	1	355722219
PCB2	C7522	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB2	C7523	C-CERA C	CC725CH1E-102J1	1	342111024R1
PCB2	R7501	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R7502	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R7503	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7504	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB2	R7505	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R7506	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB2	R7507	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB2	R7508	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB2	R7509	C-CARBON R	RN72K1J-472JE	1	435034724R1
PCB2	R7510	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB2	R7511	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB2	R7512	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7513	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7514	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7515	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7516	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7517	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB2	R7518	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB2	R7519	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB2	R7520	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB2	R7521	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB2	R7522	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB2	R7523	C-CARBON R	RN72K1J-272JE	1	435032724R1
PCB2	R7524	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB2	R7526	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7527	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7528	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7529	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7530	C-CARBON R	RN72K1J-102JE	1	435031024R1
PCB2	R7531	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R7532	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R7611	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R7612	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R7613	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7614	C-CARBON R	RN72K1J-821JE	1	435038214R1

PCB2	R7615	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R7621	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R7622	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R7623	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7624	C-CARBON R	RN72K1J-821JE	1	435038214R1
PCB2	R7625	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R7626	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R7631	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R7632	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R7633	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7634	C-CARBON R	RN72K1J-821JE	1	435038214R1
PCB2	R7635	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R7636	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R7641	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R7642	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R7643	C-CARBON R	RN72K1J-561JE	1	435035614R1
PCB2	R7644	C-CARBON R	RN72K1J-821JE	1	435038214R1
PCB2	R7645	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R7646	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	P7501	ST JACK	YKB21-5005	1	25045724
PCB2	P7502A	SOCKET	NSCT-10P1679	1	25051892
PCB2	P7502Aor	SOCKET	NSCT-10P2428	(1)	25052531
PCB2	P7503A	SOCKET	NSCT-8P1841	1	25052054
PCB2	P7503Aor	SOCKET	NSCT-8P1639	(1)	25051852
PCB2	P7503Aor	SOCKET	NSCT-8P2138	(1)	25052241
PCB2	S7501	R ENCODE	EC12E2425	1	25065655
PCB2	S7611	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7611 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7612	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7612 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7613	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7613 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7614	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7614 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7615	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7615 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7616	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7616 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7621	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7621 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7622	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7622 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7623	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7623 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7624	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7624 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7625	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7625 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7626	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7626 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7627	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7627 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7631	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7631 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7632	PUSH SW	NPS-111-S681	1	25035718

PCB2	S7632 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7633	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7633 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7634	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7634 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7635	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7635 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7636	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7636 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7637	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7637 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7641	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7641 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7642	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7642 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7642 or	PUSH SW	NPS-111-S681	(1)	25035718
PCB2	S7643	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7643 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7644	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7644 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7645	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7645 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7646	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7646 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	S7647	PUSH SW	NPS-111-S681	1	25035718
PCB2	S7647 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB2	JL7501A	WIRE HOL	NSCT-3P894	1	25051107
PCB2	JL7501B	WIRE HOL	NSCT-3P894	1	25051107
PCB2	JL7502A	WIRE HOL	NSCT-5P896	1	25051109
PCB2	JL7502B	WIRE HOL	NSCT-5P896	1	25051109
PCB2	E7501	RETAINER	KANAGU	1	27141059

U8 DRIVER AMPLIFIER PC BOARD (NAAF-7866-3A)
U9 VIDEO & OPT TERMINAL PC BOARD (NAAF-7867-3A)
U10 REGULATOR PC BOARD (NAETC-7868-3A)
U11 TERMINAL PC BOARD (NAETC-7869-3A)
U12 SPEAKER TERMINAL PC BOARD (NAETC-7870-3A)

<Note> The parts of each PC board are indicated collectively.

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO.	REMARKS
PWB3	Q921	TR	KTC3199-GR	1	2215864	
PWB3	Q921 or	TR	2SC1740S-R	(1)	2213284	
PWB3	Q921 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q921 or	TR	2SC2458-GR	(1)	2212115	
PWB3	Q6010	TR	2SC1740S-R	1	2213284	
PWB3	Q6010 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q6011	TR	2SC1740S-R	1	2213284	
PWB3	Q6011 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q6012	TR	2SC1740S-R	1	2213284	
PWB3	Q6012 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q6013	TR	2SC1740S-R	1	2213284	
PWB3	Q6013 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q6014	TR	2SC1740S-R	1	2213284	
PWB3	Q6014 or	TR	2SC1740S-S	(1)	2213285	
PWB3	Q6020	TR	2SC1740S-R	1	2213284	
PWB3	Q6020 or	TR	2SC1740S-S	(1)	2213285	

PWB3	Q6021	TR	2SC1740S-R	1	2213284
PWB3	Q6021 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6022	TR	2SC1740S-R	1	2213284
PWB3	Q6022 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6023	TR	2SC1740S-R	1	2213284
PWB3	Q6023 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6024	TR	2SC1740S-R	1	2213284
PWB3	Q6024 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6030	TR	2SC5171	1	2203010
PWB3	Q6031	TR	2SC5171	1	2203010
PWB3	Q6032	TR	2SC5171	1	2203010
PWB3	Q6033	TR	2SC5171	1	2203010
PWB3	Q6034	TR	2SC5171	1	2203010
PWB3	Q6040	TR	2SA1930	1	2203000
PWB3	Q6041	TR	2SA1930	1	2203000
PWB3	Q6042	TR	2SA1930	1	2203000
PWB3	Q6043	TR	2SA1930	1	2203000
PWB3	Q6044	TR	2SA1930	1	2203000
PWB3	Q6070	TR	2SC2631-R	1	2214984
PWB3	Q6070 or	TR	2SC2631-S	(1)	2214985
PWB3	Q6071	TR	2SC2631-R	1	2214984
PWB3	Q6071 or	TR	2SC2631-S	(1)	2214985
PWB3	Q6072	TR	2SC2631-R	1	2214984
PWB3	Q6072 or	TR	2SC2631-S	(1)	2214985
PWB3	Q6073	TR	2SC2631-R	1	2214984
PWB3	Q6073 or	TR	2SC2631-S	(1)	2214985
PWB3	Q6074	TR	2SC2631-R	1	2214984
PWB3	Q6074 or	TR	2SC2631-S	(1)	2214985
PWB3	Q6303	TR	KTA1267-GR	1	2215995
PWB3	Q6303 or	TR	2SA933S-R	(1)	2213354
PWB3	Q6303 or	TR	2SA933S-S	(1)	2213355
PWB3	Q6601	TR	KTC3199-GR	1	2215864
PWB3	Q6601 or	TR	2SC1740S-R	(1)	2213284
PWB3	Q6601 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6601 or	TR	2SC2458-GR	(1)	2212115
PWB3	Q6602	TR	KTC3199-GR	1	2215864
PWB3	Q6602 or	TR	2SC1740S-R	(1)	2213284
PWB3	Q6602 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6602 or	TR	2SC2458-GR	(1)	2212115
PWB3	Q6603	TR	KTC3199-GR	1	2215864
PWB3	Q6603 or	TR	2SC1740S-R	(1)	2213284
PWB3	Q6603 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6603 or	TR	2SC2458-GR	(1)	2212115
PWB3	Q6701	TR	KTC3200-BL	1	2215896
PWB3	Q6701 or	TR	KTC3200-GR	(1)	2215895
PWB3	Q6701 or	TR	2SC1775A-E	(1)	2210755
PWB3	Q6701 or	TR	2SC1775A-F	(1)	2210756
PWB3	Q6701 or	TR	2SC1845-E	(1)	2211733
PWB3	Q6701 or	TR	2SC1845-F	(1)	2211732
PWB3	Q6702	TR	KTC3200-BL	1	2215896
PWB3	Q6702 or	TR	KTC3200-GR	(1)	2215895
PWB3	Q6702 or	TR	2SC1775A-E	(1)	2210755
PWB3	Q6702 or	TR	2SC1775A-F	(1)	2210756
PWB3	Q6702 or	TR	2SC1845-E	(1)	2211733
PWB3	Q6702 or	TR	2SC1845-F	(1)	2211732

PWB3	Q6703	TR	KTA1268-GR	1	2215885
PWB3	Q6703 or	TR	KTA1268-BL	(1)	2215886
PWB3	Q6703 or	TR	2SA992-E	(1)	2211793
PWB3	Q6703 or	TR	2SA992-F	(1)	2211792
PWB3	Q6901	TR	KTC3199-GR	1	2215864
PWB3	Q6901 or	TR	2SC1740S-R	(1)	2213284
PWB3	Q6901 or	TR	2SC1740S-S	(1)	2213285
PWB3	Q6901 or	TR	2SC2458-GR	(1)	2212115
PWB3	D921	DIODE	RL1N4003	1	22380260
PWB3	D921 or	DIODE	GP104003E	(1)	22380035
PWB3	D922	DIODE	RL1N4003	1	22380260
PWB3	D922 or	DIODE	GP104003E	(1)	22380035
PWB3	D923	DIODE	RL1N4003	1	22380260
PWB3	D923 or	DIODE	GP104003E	(1)	22380035
PWB3	D924	DIODE	RL1N4003	1	22380260
PWB3	D924 or	DIODE	GP104003E	(1)	22380035
PWB3	D925	DIODE	1SS133	1	223163
PWB3	D925 or	DIODE	1SS270A	(1)	223205
PWB3	D925 or	DIODE	WG713A	(1)	223222
PWB3	D925 or	DIODE	1N4148M	(1)	223273
PWB3	D6000	DIODE	1SS133	1	223163
PWB3	D6000 or	DIODE	1SS270A	(1)	223205
PWB3	D6000 or	DIODE	WG713A	(1)	223222
PWB3	D6001	DIODE	1SS133	1	223163
PWB3	D6001 or	DIODE	1SS270A	(1)	223205
PWB3	D6001 or	DIODE	WG713A	(1)	223222
PWB3	D6002	DIODE	1SS133	1	223163
PWB3	D6002 or	DIODE	1SS270A	(1)	223205
PWB3	D6002 or	DIODE	WG713A	(1)	223222
PWB3	D6003	DIODE	1SS133	1	223163
PWB3	D6003 or	DIODE	1SS270A	(1)	223205
PWB3	D6003 or	DIODE	WG713A	(1)	223222
PWB3	D6004	DIODE	1SS133	1	223163
PWB3	D6004 or	DIODE	1SS270A	(1)	223205
PWB3	D6004 or	DIODE	WG713A	(1)	223222
PWB3	D6010	DIODE	1SS133	1	223163
PWB3	D6010 or	DIODE	1SS270A	(1)	223205
PWB3	D6010 or	DIODE	WG713A	(1)	223222
PWB3	D6011	DIODE	1SS133	1	223163
PWB3	D6011 or	DIODE	1SS270A	(1)	223205
PWB3	D6011 or	DIODE	WG713A	(1)	223222
PWB3	D6012	DIODE	1SS133	1	223163
PWB3	D6012 or	DIODE	1SS270A	(1)	223205
PWB3	D6012 or	DIODE	WG713A	(1)	223222
PWB3	D6013	DIODE	1SS133	1	223163
PWB3	D6013 or	DIODE	1SS270A	(1)	223205
PWB3	D6013 or	DIODE	WG713A	(1)	223222
PWB3	D6014	DIODE	1SS133	1	223163
PWB3	D6014 or	DIODE	1SS270A	(1)	223205
PWB3	D6014 or	DIODE	WG713A	(1)	223222
PWB3	D6306	DIODE	1SS133	1	223163
PWB3	D6306 or	DIODE	1SS270A	(1)	223205
PWB3	D6306 or	DIODE	WG713A	(1)	223222
PWB3	D6306 or	DIODE	1N4148M	(1)	223273
PWB3	D6307	DIODE	1SS133	1	223163

PWB3	D6307 or	DIODE	1SS270A	(1)	223205	
PWB3	D6307 or	DIODE	WG713A	(1)	223222	
PWB3	D6307 or	DIODE	1N4148M	(1)	223273	
PWB3	D6701	DIODE	1SS133	1	223163	
PWB3	D6701 or	DIODE	1SS270A	(1)	223205	
PWB3	D6701 or	DIODE	WG713A	(1)	223222	
PWB3	D6701 or	DIODE	1N4148M	(1)	223273	
PWB3	D6702	DIODE	1SS133	1	223163	
PWB3	D6702 or	DIODE	1SS270A	(1)	223205	
PWB3	D6702 or	DIODE	WG713A	(1)	223222	
PWB3	D6702 or	DIODE	1N4148M	(1)	223273	
PWB3	D6703	ZENER D	MTZJ5.1B	1	224470512	
PWB3	D6703 or	ZENER D	DZ-5.1BSB	(1)	224850512	
PWB3	D6704	ZENER D	MTZJ5.1B	1	224470512	
PWB3	D6704 or	ZENER D	DZ-5.1BSB	(1)	224850512	
PWB3	D6903	DIODE	D5SBA20	1	22380130F	
PWB3	D6903 or	DIODE	RS603M-B42	(1)	22380274F	
PWB3	D6903 or	DIODE	RBV602	(1)	22380038F	
PWB3	D6904	DIODE	D5SBA20	1	22380130F	
PWB3	D6904 or	DIODE	RS603M-B42	(1)	22380274F	
PWB3	D6904 or	DIODE	RBV602	(1)	22380038F	
PWB3	D6906	DIODE	1SS133	1	223163	
PWB3	D6906 or	DIODE	1SS270A	(1)	223205	
PWB3	D6906 or	DIODE	WG713A	(1)	223222	
PWB3	D6906 or	DIODE	1N4148M	(1)	223273	
PWB3	T902	P TRANS	NPT-1492D	1	2301739	!
PWB3	C901	IS C	RE275V-103M	1	3500196S	!
PWB3	C921	CERA C	CK45F50V-223Z	1	335622230	
PWB3	C922	VR C	CE04W35V-220M(VR)	1	394662217	
PWB3	C923	CERA C	CK45F50V-223Z	1	335622230	
PWB3	C6040	VR C	CE04W50V-47M(VR)	1	394684707	
PWB3	C6041	VR C	CE04W50V-47M(VR)	1	394684707	
PWB3	C6042	VR C	CE04W50V-47M(VR)	1	394684707	
PWB3	C6043	VR C	CE04W50V-47M(VR)	1	394684707	
PWB3	C6044	VR C	CE04W50V-47M(VR)	1	394684707	
PWB3	C6230	TF C	ECQ-V50V-473J	1	374724734	
PWB3	C6231	TF C	ECQ-V50V-473J	1	374724734	
PWB3	C6232	TF C	ECQ-V50V-473J	1	374724734	
PWB3	C6233	TF C	ECQ-V50V-473J	1	374724734	
PWB3	C6234	TF C	ECQ-V50V-473J	1	374724734	
PWB3	C6701	VR C	CE04W6.3V-220M(VR)	1	394622217	
PWB3	C6701 or	ELECT C	CE04W6.3V220M(SC)	(1)	394722217	
PWB3	C6703	CERA C	CK45F50V-223Z	1	335622230	
PWB3	C6704	VR C	CE04W50V-1M(VR)	1	394680107	
PWB3	C6706	VR C	CE04W6.3V-100M(VR)	1	394621017	
PWB3	C6706 or	ELECT C	CE04W6.3V100M(SC)	(1)	394721017	
PWB3	C6708	TF C	ECQ-B50V-223J	1	374722234	
PWB3	C6901	ELECT C	CE69W69V-10000M	1	3504404	
PWB3	C6901 or	ELECT C	CE69W69V10000M	(1)	3504392	
PWB3	C6902	ELECT C	CE69W69V-10000M	1	3504404	
PWB3	C6902 or	ELECT C	CE69W69V10000M	(1)	3504392	
PWB3	C6903	MY C	MY92-50V-104J	1	371121044	
PWB3	C6904	TF C	ECQ-V100-334J	1	374733344	
PWB3	C6905	TF C	ECQ-V100-334J	1	374733344	
PWB3	C6906	MY C	MY92-50V-104J	1	371121044	

PWB3	C6907	MY C	MY92-50V-104J	1	371121044
PWB3	R923	CARBON R	R16J-1K	1	417341024
PWB3	R924	METAL O R	RS1/2WBJ-82	1	443528204
PWB3	R926	CARBON R	R16J-4.7K	1	417344724
PWB3	R6000	CARBON R	R16J-5.6K	1	417345624
PWB3	R6001	CARBON R	R16J-5.6K	1	417345624
PWB3	R6002	CARBON R	R16J-5.6K	1	417345624
PWB3	R6003	CARBON R	R16J-5.6K	1	417345624
PWB3	R6004	CARBON R	R16J-5.6K	1	417345624
PWB3	R6010	CARBON R	R16J-3.9K	1	417343924
PWB3	R6011	CARBON R	R16J-3.9K	1	417343924
PWB3	R6012	CARBON R	R16J-3.9K	1	417343924
PWB3	R6013	CARBON R	R16J-3.9K	1	417343924
PWB3	R6014	CARBON R	R16J-3.9K	1	417343924
PWB3	R6030	CARBON R	R16J-390	1	417343914
PWB3	R6031	CARBON R	R16J-390	1	417343914
PWB3	R6032	CARBON R	R16J-390	1	417343914
PWB3	R6033	CARBON R	R16J-390	1	417343914
PWB3	R6034	CARBON R	R16J-390	1	417343914
PWB3	R6040	TRIM R	N06HR1KBC	1	5210258
PWB3	R6041	TRIM R	N06HR1KBC	1	5210258
PWB3	R6042	TRIM R	N06HR1KBC	1	5210258
PWB3	R6043	TRIM R	N06HR1KBC	1	5210258
PWB3	R6044	TRIM R	N06HR1KBC	1	5210258
PWB3	R6050	CARBON R	R16J-3.9K	1	417343924
PWB3	R6051	CARBON R	R16J-3.9K	1	417343924
PWB3	R6052	CARBON R	R16J-3.9K	1	417343924
PWB3	R6053	CARBON R	R16J-3.9K	1	417343924
PWB3	R6054	CARBON R	R16J-3.9K	1	417343924
PWB3	R6070	NF CARBON R	R25J-110	1	415471114
PWB3	R6071	NF CARBON R	R25J-110	1	415471114
PWB3	R6072	NF CARBON R	R25J-110	1	415471114
PWB3	R6073	NF CARBON R	R25J-110	1	415471114
PWB3	R6074	NF CARBON R	R25J-110	1	415471114
PWB3	R6080	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6081	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6082	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6083	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6084	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6090	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6091	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6092	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6093	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6094	NF CARBON R	R25J-2.2	1	415470224
PWB3	R6100	CEMENT R	RSS2WK-0.22	1	4800071
PWB3	R6100 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PWB3	R6100 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PWB3	R6101	CEMENT R	RSS2WK-0.22	1	4800071
PWB3	R6101 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PWB3	R6101 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PWB3	R6102	CEMENT R	RSS2WK-0.22	1	4800071
PWB3	R6102 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PWB3	R6102 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PWB3	R6103	CEMENT R	RSS2WK-0.22	1	4800071
PWB3	R6103 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131

PWB3	R6103 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PWB3	R6104	CEMENT R	RSS2WK-0.22	1	4800071
PWB3	R6104 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PWB3	R6104 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PWB3	R6140	CARBON R	R16J-22K	1	417342234
PWB3	R6141	CARBON R	R16J-22K	1	417342234
PWB3	R6142	CARBON R	R16J-22K	1	417342234
PWB3	R6143	CARBON R	R16J-22K	1	417342234
PWB3	R6144	CARBON R	R16J-22K	1	417342234
PWB3	R6150	CARBON R	R16J-12K	1	417341234
PWB3	R6151	CARBON R	R16J-12K	1	417341234
PWB3	R6152	CARBON R	R16J-12K	1	417341234
PWB3	R6153	CARBON R	R16J-12K	1	417341234
PWB3	R6154	CARBON R	R16J-12K	1	417341234
PWB3	R6160	CARBON R	R16J-33K	1	417343334
PWB3	R6161	CARBON R	R16J-33K	1	417343334
PWB3	R6162	CARBON R	R16J-33K	1	417343334
PWB3	R6163	CARBON R	R16J-33K	1	417343334
PWB3	R6164	CARBON R	R16J-33K	1	417343334
PWB3	R6170	CARBON R	R16J-47K	1	417344734
PWB3	R6171	CARBON R	R16J-47K	1	417344734
PWB3	R6172	CARBON R	R16J-47K	1	417344734
PWB3	R6173	CARBON R	R16J-47K	1	417344734
PWB3	R6174	CARBON R	R16J-47K	1	417344734
PWB3	R6180	CARBON R	R16J-47K	1	417344734
PWB3	R6181	CARBON R	R16J-47K	1	417344734
PWB3	R6182	CARBON R	R16J-47K	1	417344734
PWB3	R6183	CARBON R	R16J-47K	1	417344734
PWB3	R6184	CARBON R	R16J-47K	1	417344734
PWB3	R6190	CARBON R	R16J-330K	1	417343344
PWB3	R6191	CARBON R	R16J-330K	1	417343344
PWB3	R6192	CARBON R	R16J-330K	1	417343344
PWB3	R6193	CARBON R	R16J-330K	1	417343344
PWB3	R6194	CARBON R	R16J-330K	1	417343344
PWB3	R6230	METAL R	RNU1WCJ-8.2	1	453630824
PWB3	R6231	METAL R	RNU1WCJ-8.2	1	453630824
PWB3	R6232	METAL R	RNU1WCJ-8.2	1	453630824
PWB3	R6233	METAL R	RNU1WCJ-8.2	1	453630824
PWB3	R6234	METAL R	RNU1WCJ-8.2	1	453630824
PWB3	R6306	CARBON R	R16J-10K	1	417341034
PWB3	R6307	CARBON R	R16J-2.2K	1	417342224
PWB3	R6308	CARBON R	R16J-4.7K	1	417344724
PWB3	R6380	RESISTOR	PTFL04BF471Q2N34B0 (80)	1	4000217
PWB3	R6601	CARBON R	R16J-1K	1	417341024
PWB3	R6602	CARBON R	R16J-1K	1	417341024
PWB3	R6603	CARBON R	R16J-1K	1	417341024
PWB3	R6701	CARBON R	R16J-22K	1	417342234
PWB3	R6702	CARBON R	R16J-10K	1	417341034
PWB3	R6704	CARBON R	R16J-47K	1	417344734
PWB3	R6706	CARBON R	R16J-220K	1	417342244
PWB3	R6708	CARBON R	R16J-33K	1	417343334
PWB3	R6709	CARBON R	R16J-5.6K	1	417345624
PWB3	R6710	CARBON R	R16J-12K	1	417341234
PWB3	R6850	METAL O R	RS1/2WBJ-390	1	443523914
PWB3	R6851	METAL O R	RS1/2WBJ-390	1	443523914

PWB3	R6902	CARBON R	R16J-1K	1	417341024	
PWB3	RL6901	RELAY SW	NRL-1P5A-DC12-102	1	25065526	
PWB3	RL6901 or	RELAY	NRL-1P5A-DC12-127	(1)	25065561	
PWB3	RL6901 or	RELAY	NRL-1P5A-DC12-096	(1)	25065515	
PWB3	RL6901 or	RELAY	NRL-1P10A-DC12-093	(1)	25065508	
PWB3	RL6902	RELAY SW	NRL-1P5A-DC12-102	1	25065526	
PWB3	RL6902 or	RELAY	NRL-1P5A-DC12-127	(1)	25065561	
PWB3	RL6902 or	RELAY	NRL-1P5A-DC12-096	(1)	25065515	
PWB3	RL6902 or	RELAY	NRL-1P10A-DC12-093	(1)	25065508	
PWB3	RL901	RELAY SW	NRL-1P5A-DC12-102	1	25065526	!
PWB3	RL901 or	RELAY	NRL-1P5A-DC12-127	(1)	25065561	!
PWB3	RL901 or	RELAY	NRL-1P5A-DC12-096	(1)	25065515	!
PWB3	RL901 or	RELAY	NRL-1P10A-DC12-093	(1)	25065508	!
PWB3	F6901A	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F6901B	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F6902A	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F6902B	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F901A	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F901B	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F901C	LABEL	LABEL	1	29360842	
PWB3	F903A	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F903B	FUSE HOL	NSCT-1P2031	1	25052133	!
PWB3	F903C	LABEL	5A/125V	1	29360462	
PWB3	J010	CRIMP AS	CRIMP AS	1	2069925149UL	
PWB3	J011	CRIMP AS	CRIMP AS	1	2069925226UL	
PWB3	JL6402A	WIRE HOL	NSCT-3P874	1	25051087	
PWB3	JL6402B	WIRE HOL	NSCT-3P874	1	25051087	
PWB3	JL6803A	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	JL6804A	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	JL6805A	WIRE HOL	NSCT-4P895	1	25051108	
PWB3	JL6951A	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	JL6951B	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	JL6952A	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	JL6952B	WIRE HOL	NSCT-5P896	1	25051109	
PWB3	P206A	PLUG	NPLG-14P666	1	25055710	
PWB3	P6000	PLUG	NPLG-5P0960	1	25056010	
PWB3	P6001	PLUG	NPLG-5P0960	1	25056010	
PWB3	P6002	PLUG	NPLG-5P0960	1	25056010	
PWB3	P6003	PLUG	NPLG-5P0960	1	25056010	
PWB3	P6004	PLUG	NPLG-5P0960	1	25056010	
PWB3	P6011	PLUG	NPLG-9P0964	1	25056014	
PWB3	P6072	TRM	NTM-1P233(M1969)	1	25060302	
PWB3	P6072A	TRM	NTM-1P232(M1700)	1	25060301	
PWB3	P6073A	TRM	NTM-1P232(M1700)	1	25060301	
PWB3	P6080	PLUG	NPLG-2P29	1	25055038	
PWB3	P6081	PLUG	NPLG-2P29	1	25055038	
PWB3	P6082	PLUG	NPLG-2P29	1	25055038	
PWB3	P6083	PLUG	NPLG-2P29	1	25055038	
PWB3	P6084	PLUG	NPLG-2P29	1	25055038	
PWB3	P6301	PLUG	NPLG-2P29	1	25055038	
PWB3	P6380	SHLD CASE	(THERMISTOR)	1	27225154A	
PWB3	P6801	WS CLAMP	CP-2S	1	260226	
PWB3	P6903	BUS BAR	BBL25	1	27141806	
PWB3	P6906	RETAINER	KANAGU	1	27141059	
PWB3	P6907	TRM(SCREW)	NEGITANSI M3	1	25065425	

PWB3	P6931	PLUG	NPLG-15P667	1	25055711	
PWB3	P801B	SOCKET	NSCT-14P1029	1	25051239	
PWB3	P901A	PLUG	NPLG-2P631	1	25055675	
PWB3	P902	SOCKET	NSCT-2P1358	1	25051571	!
PWB3	P902 or	AC OUTLET	AC-181-UL-11V	(1)	25053030	!
PWB3	P911	CRIMP AS	CRIMP AS	1	2069943259UL	
PWB3	P912	CRIMP AS	CRIMP AS	1	2069943224UL	
PWB3	P931	PLUG	NPLG-5P657	1	25055701	
PWB3	P931A	SOCKET	NSCT-5P1020	1	25051230	

U17	POWER AMPLIFIER PC BOARD (NAAF-7875-2B)
U18	TERMINAL PC BOARD (NAPS-7876-2B)
U19	POWER SUPPLY PC BOARD (NAPS-7877-2B)
U20	TERMINAL PC BOARD (NAPS-7878-2B)
U23	HOLDER PC BOARD (NAPS-7881-2B)
U25	TERMINAL PC BOARD (NAETC-7884-2B)
U26	THERMAL SENSOR PC BOARD (NAETC-7856-2B)

<Note> The parts of each PC board are indicated collectively.

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO.	REMARKS
PCB4	U281	PHT CP	TORX179L	1	24120101	
PCB4	Q201	TR	RN1241-A	1	2213631	
PCB4	Q201 or	TR	RN1241-B	(1)	2213632	
PCB4	Q202	TR	RN1241-A	1	2213631	
PCB4	Q202 or	TR	RN1241-B	(1)	2213632	
PCB4	Q203	IC	LA7956	1	22241759	
PCB4	Q204	TR	KTA1267-GR	1	2215995	
PCB4	Q204 or	TR	2SA933S-R	(1)	2213354	
PCB4	Q205	TR	KRA102M	1	2215770	
PCB4	Q205 or	TR	DTA114ES	(1)	2213510	
PCB4	Q206	TR	KRA102M	1	2215770	
PCB4	Q206 or	TR	DTA114ES	(1)	2213510	
PCB4	Q281	IC	74HCU04F	1	222740046R2	
PCB4	Q5000	TR	KTC3200-BL	1	2215896	
PCB4	Q5000 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5000 or	TR	2SC1775A-F	(1)	2210756	
PCB4	Q5000 or	TR	2SC1845-E	(1)	2211733	
PCB4	Q5001	TR	KTC3200-BL	1	2215896	
PCB4	Q5001 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5001 or	TR	2SC1775A-F	(1)	2210756	
PCB4	Q5001 or	TR	2SC1845-E	(1)	2211733	
PCB4	Q5002	TR	KTC3200-BL	1	2215896	
PCB4	Q5002 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5002 or	TR	2SC1775A-F	(1)	2210756	
PCB4	Q5002 or	TR	2SC1845-E	(1)	2211733	
PCB4	Q5003	TR	KTC3200-BL	1	2215896	
PCB4	Q5003 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5003 or	TR	2SC1775A-F	(1)	2210756	
PCB4	Q5003 or	TR	2SC1845-E	(1)	2211733	
PCB4	Q5004	TR	KTC3200-BL	1	2215896	
PCB4	Q5004 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5004 or	TR	2SC1775A-F	(1)	2210756	
PCB4	Q5004 or	TR	2SC1845-E	(1)	2211733	
PCB4	Q5010	TR	KTC3200-BL	1	2215896	
PCB4	Q5010 or	TR	2SC1775A-E	(1)	2210755	
PCB4	Q5010 or	TR	2SC1775A-F	(1)	2210756	

PCB4	Q5010 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5011	TR	KTC3200-BL	1	2215896
PCB4	Q5011 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5011 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5011 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5012	TR	KTC3200-BL	1	2215896
PCB4	Q5012 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5012 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5012 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5013	TR	KTC3200-BL	1	2215896
PCB4	Q5013 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5013 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5013 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5014	TR	KTC3200-BL	1	2215896
PCB4	Q5014 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5014 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5014 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5030	TR	KTA1024-Y	1	2215844
PCB4	Q5030 or	TR	KTA1024-O	(1)	2215843
PCB4	Q5030 or	TR	2SA949-Y	(1)	2211354
PCB4	Q5030 or	TR	2SA949-O	(1)	2211353
PCB4	Q5031	TR	KTA1024-Y	1	2215844
PCB4	Q5031 or	TR	KTA1024-O	(1)	2215843
PCB4	Q5031 or	TR	2SA949-Y	(1)	2211354
PCB4	Q5031 or	TR	2SA949-O	(1)	2211353
PCB4	Q5032	TR	KTA1024-Y	1	2215844
PCB4	Q5032 or	TR	KTA1024-O	(1)	2215843
PCB4	Q5032 or	TR	2SA949-Y	(1)	2211354
PCB4	Q5032 or	TR	2SA949-O	(1)	2211353
PCB4	Q5033	TR	KTA1024-Y	1	2215844
PCB4	Q5033 or	TR	KTA1024-O	(1)	2215843
PCB4	Q5033 or	TR	2SA949-Y	(1)	2211354
PCB4	Q5033 or	TR	2SA949-O	(1)	2211353
PCB4	Q5034	TR	KTA1024-Y	1	2215844
PCB4	Q5034 or	TR	KTA1024-O	(1)	2215843
PCB4	Q5034 or	TR	2SA949-Y	(1)	2211354
PCB4	Q5034 or	TR	2SA949-O	(1)	2211353
PCB4	Q5040	TR	KTC3206-Y	1	2215854
PCB4	Q5040 or	TR	KTC3206-O	(1)	2215853
PCB4	Q5040 or	TR	2SC2229-Y	(1)	2211634
PCB4	Q5040 or	TR	2SC2229-O	(1)	2211633
PCB4	Q5041	TR	KTC3206-Y	1	2215854
PCB4	Q5041 or	TR	KTC3206-O	(1)	2215853
PCB4	Q5041 or	TR	2SC2229-Y	(1)	2211634
PCB4	Q5041 or	TR	2SC2229-O	(1)	2211633
PCB4	Q5042	TR	KTC3206-Y	1	2215854
PCB4	Q5042 or	TR	KTC3206-O	(1)	2215853
PCB4	Q5042 or	TR	2SC2229-Y	(1)	2211634
PCB4	Q5042 or	TR	2SC2229-O	(1)	2211633
PCB4	Q5043	TR	KTC3206-Y	1	2215854
PCB4	Q5043 or	TR	KTC3206-O	(1)	2215853
PCB4	Q5043 or	TR	2SC2229-Y	(1)	2211634
PCB4	Q5043 or	TR	2SC2229-O	(1)	2211633
PCB4	Q5044	TR	KTC3206-Y	1	2215854
PCB4	Q5044 or	TR	KTC3206-O	(1)	2215853

PCB4	Q5044 or	TR	2SC2229-Y	(1)	2211634
PCB4	Q5044 or	TR	2SC2229-O	(1)	2211633
PCB4	Q5050	TR	KTC3200-BL	1	2215896
PCB4	Q5050 or	TR	KTC3200-GR	(1)	2215895
PCB4	Q5050 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5050 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5050 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5050 or	TR	2SC1845-F	(1)	2211732
PCB4	Q5051	TR	KTC3200-BL	1	2215896
PCB4	Q5051 or	TR	KTC3200-GR	(1)	2215895
PCB4	Q5051 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5051 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5051 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5051 or	TR	2SC1845-F	(1)	2211732
PCB4	Q5052	TR	KTC3200-BL	1	2215896
PCB4	Q5052 or	TR	KTC3200-GR	(1)	2215895
PCB4	Q5052 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5052 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5052 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5052 or	TR	2SC1845-F	(1)	2211732
PCB4	Q5053	TR	KTC3200-BL	1	2215896
PCB4	Q5053 or	TR	KTC3200-GR	(1)	2215895
PCB4	Q5053 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5053 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5053 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5053 or	TR	2SC1845-F	(1)	2211732
PCB4	Q5054	TR	KTC3200-BL	1	2215896
PCB4	Q5054 or	TR	KTC3200-GR	(1)	2215895
PCB4	Q5054 or	TR	2SC1775A-E	(1)	2210755
PCB4	Q5054 or	TR	2SC1775A-F	(1)	2210756
PCB4	Q5054 or	TR	2SC1845-E	(1)	2211733
PCB4	Q5054 or	TR	2SC1845-F	(1)	2211732
PCB4	Q6931	IC(REGURATOR)	78057HF(TA78057S)	1	222780574TOS
PCB4	D5000	ZENER D	MTZJ5.6B	1	224470562
PCB4	D5000 or	ZENER D	DZ-5.6BSB	(1)	224850562
PCB4	D5001	ZENER D	MTZJ5.6B	1	224470562
PCB4	D5001 or	ZENER D	DZ-5.6BSB	(1)	224850562
PCB4	D5002	ZENER D	MTZJ5.6B	1	224470562
PCB4	D5002 or	ZENER D	DZ-5.6BSB	(1)	224850562
PCB4	D5003	ZENER D	MTZJ5.6B	1	224470562
PCB4	D5003 or	ZENER D	DZ-5.6BSB	(1)	224850562
PCB4	D5004	ZENER D	MTZJ5.6B	1	224470562
PCB4	D5004 or	ZENER D	DZ-5.6BSB	(1)	224850562
PCB4	D6600	DIODE	1SS133	1	223163
PCB4	D6600 or	DIODE	1SS270A	(1)	223205
PCB4	D6600 or	DIODE	WG713A	(1)	223222
PCB4	D6600 or	DIODE	1N4148M	(1)	223273
PCB4	D6601	DIODE	1SS133	1	223163
PCB4	D6601 or	DIODE	1SS270A	(1)	223205
PCB4	D6601 or	DIODE	WG713A	(1)	223222
PCB4	D6601 or	DIODE	1N4148M	(1)	223273
PCB4	D6604	DIODE	1SS133	1	223163
PCB4	D6604 or	DIODE	1SS270A	(1)	223205
PCB4	D6604 or	DIODE	WG713A	(1)	223222
PCB4	D6604 or	DIODE	1N4148M	(1)	223273

PCB4	D6932	DIODE	RL1N4003	1	22380260
PCB4	D6932 or	DIODE	GP104003E	(1)	22380035
PCB4	D6933	DIODE	RL1N4003	1	22380260
PCB4	D6933 or	DIODE	GP104003E	(1)	22380035
PCB4	L281	CHOKE COIL	NCH-1452 220K	1	233454K220
PCB4	L281 or	CHOKE COIL	NCH-1561 220K	(1)	233526K220T
PCB4	L282	CHOKE COIL	NCH-1452 220K	1	233454K220
PCB4	L282 or	CHOKE COIL	NCH-1561 220K	(1)	233526K220T
PCB4	L283	CHOKE COIL	NCH-1452 022M	1	233454M022
PCB4	L283 or	CHOKE COIL	NCH-1561 022K	(1)	233526K022T
PCB4	C201	VR C	CE04W50V-2.2M(VR)	1	394680227
PCB4	C201 or	ELECT C	CE04W50V2.2M(SC)	(1)	394780227
PCB4	C202	VR C	CE04W50V-2.2M(VR)	1	394680227
PCB4	C202 or	ELECT C	CE04W50V2.2M(SC)	(1)	394780227
PCB4	C203	VR C	CE04W16V-470M(VR)	1	394644717
PCB4	C203 or	ELECT C	CE04W16V470M(SC)	(1)	394744717
PCB4	C204	VR C	CE04W50V-2.2M(VR)	1	394680227
PCB4	C204 or	ELECT C	CE04W50V2.2M(SC)	(1)	394780227
PCB4	C205	VR C	CE04W16V-470M(VR)	1	394644717
PCB4	C205 or	ELECT C	CE04W16V470M(SC)	(1)	394744717
PCB4	C217	VR C	CE04W50V-2.2M(VR)	1	394680227
PCB4	C217 or	ELECT C	CE04W50V2.2M(SC)	(1)	394780227
PCB4	C220	CERA C	CK45F50V-223Z	1	335622230
PCB4	C221	VR C	CE04W16V-47M(VR)	1	394644707
PCB4	C221 or	ELECT C	CE04W16V47M(SC)	(1)	394744707
PCB4	C222	CERA C	CK45F50V-223Z	1	335622230
PCB4	C227	CERA C	CK45F50V-223Z	1	335622230
PCB4	C281	CERA C	CK45F50V-223Z	1	335622230
PCB4	C282	CERA C	CC45SL50V-101J	1	345021014
PCB4	C283	CERA C	CK45F50V-223Z	1	335622230
PCB4	C284	CERA C	CC45SL50V-080D	1	345020802
PCB4	C285	VR C	CE04W6.3V-47M(VR)	1	394624707
PCB4	C286	CERA C	CK45F50V-223Z	1	335622230
PCB4	C287	CERA C	CK45F50V-223Z	1	335622230
PCB4	C288	VR C	CE04W6.3V-47M(VR)	1	394624707
PCB4	C5000	TF C	ECQ-B50V-101K	1	374721015
PCB4	C5001	TF C	ECQ-B50V-101K	1	374721015
PCB4	C5002	TF C	ECQ-B50V-101K	1	374721015
PCB4	C5003	TF C	ECQ-B50V-101K	1	374721015
PCB4	C5004	TF C	ECQ-B50V-101K	1	374721015
PCB4	C5010	VX C	CE04W16V-22M(VX)	1	393342207
PCB4	C5011	VX C	CE04W16V-22M(VX)	1	393342207
PCB4	C5012	VX C	CE04W16V-22M(VX)	1	393342207
PCB4	C5013	VX C	CE04W16V-22M(VX)	1	393342207
PCB4	C5014	VX C	CE04W16V-22M(VX)	1	393342207
PCB4	C5020	VR C	CE04W50V-10M(VR)	1	394681007
PCB4	C5021	VR C	CE04W50V-10M(VR)	1	394681007
PCB4	C5022	VR C	CE04W50V-10M(VR)	1	394681007
PCB4	C5023	VR C	CE04W50V-10M(VR)	1	394681007
PCB4	C5024	VR C	CE04W50V-10M(VR)	1	394681007
PCB4	C5040	VX C	CE04W16V-220M(VX)	1	393342217
PCB4	C5041	VX C	CE04W16V-220M(VX)	1	393342217
PCB4	C5042	VX C	CE04W16V-100M(VX)	1	393341017
PCB4	C5043	VX C	CE04W16V-100M(VX)	1	393341017
PCB4	C5044	VX C	CE04W16V-100M(VX)	1	393341017

PCB4	C5050	VR C	CE04W50V-47M(VR)	1	394684707
PCB4	C5051	VR C	CE04W50V-47M(VR)	1	394684707
PCB4	C5052	VR C	CE04W50V-47M(VR)	1	394684707
PCB4	C5053	VR C	CE04W50V-47M(VR)	1	394684707
PCB4	C5054	VR C	CE04W50V-47M(VR)	1	394684707
PCB4	C5080	CERA C	CC45SL50V-040D	1	345020402
PCB4	C5080 or	CERA C	CC45SL50V-040C	(1)	345020401
PCB4	C5081	CERA C	CC45SL50V-040D	1	345020402
PCB4	C5081 or	CERA C	CC45SL50V-040C	(1)	345020401
PCB4	C5082	CERA C	CC45SL50V-040D	1	345020402
PCB4	C5082 or	CERA C	CC45SL50V-040C	(1)	345020401
PCB4	C5083	CERA C	CC45SL50V-040D	1	345020402
PCB4	C5083 or	CERA C	CC45SL50V-040C	(1)	345020401
PCB4	C5084	CERA C	CC45SL50V-040D	1	345020402
PCB4	C5084 or	CERA C	CC45SL50V-040C	(1)	345020401
PCB4	C5090	CERA C	CC45SL50V-101J	1	345021014
PCB4	C5091	CERA C	CC45SL50V-101J	1	345021014
PCB4	C5092	CERA C	CC45SL50V-101J	1	345021014
PCB4	C5093	CERA C	CC45SL50V-101J	1	345021014
PCB4	C5094	CERA C	CC45SL50V-101J	1	345021014
PCB4	C5100	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5101	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5102	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5103	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5104	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5110	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5111	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5112	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5113	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C5114	VR C	CE04W100V-10M(VR)	1	394691007
PCB4	C6600	TF C	ECQ-B50V-103J	1	374721034
PCB4	C6601	CERA C	CK45F50V-103Z	1	335621030
PCB4	C6604	TF C	ECQ-B50V-103J	1	374721034
PCB4	C6931	VR C	CE04W25V-1000M(VR)	1	394651027S
PCB4	C6932	CERA C	CK45F50V-103Z	1	335621030
PCB4	C6933	VR C	CE04W16V-10M(VR)	1	394641007
PCB4	C9513	CERA C	CK45F50V-223Z	1	335622230
PCB4	R201	CARBON R	R16J-75	1	417347504
PCB4	R202	CARBON R	R16J-75	1	417347504
PCB4	R203	CARBON R	R16J-75	1	417347504
PCB4	R204	CARBON R	R16J-100K	1	417341044
PCB4	R205	CARBON R	R16J-75	1	417347504
PCB4	R206	CARBON R	R16J-75	1	417347504
PCB4	R207	CARBON R	R16J-680K	1	417346844
PCB4	R208	CARBON R	R16J-680K	1	417346844
PCB4	R209	CARBON R	R16J-680K	1	417346844
PCB4	R210	CARBON R	R16J-220	1	417342214
PCB4	R223	CARBON R	R16J-100K	1	417341044
PCB4	R224	CARBON R	R16J-100K	1	417341044
PCB4	R230	CARBON R	R16J-680K	1	417346844
PCB4	R231	CARBON R	R16J-75	1	417347504
PCB4	R281	CARBON R	R16J-75	1	417347504
PCB4	R282	CARBON R	R16J-470	1	417344714
PCB4	R284	CARBON R	R16J-10K	1	417341034
PCB4	R5000	CARBON R	R16J-1K	1	417341024

PCB4	R5001	CARBON R	R16J-1K	1	417341024
PCB4	R5002	CARBON R	R16J-1K	1	417341024
PCB4	R5003	CARBON R	R16J-1K	1	417341024
PCB4	R5004	CARBON R	R16J-1K	1	417341024
PCB4	R5010	CARBON R	R16J-56K	1	417345634
PCB4	R5011	CARBON R	R16J-56K	1	417345634
PCB4	R5012	CARBON R	R16J-56K	1	417345634
PCB4	R5013	CARBON R	R16J-56K	1	417345634
PCB4	R5014	CARBON R	R16J-56K	1	417345634
PCB4	R5020	CARBON R	R16J-330	1	417343314
PCB4	R5021	CARBON R	R16J-330	1	417343314
PCB4	R5022	CARBON R	R16J-330	1	417343314
PCB4	R5023	CARBON R	R16J-330	1	417343314
PCB4	R5024	CARBON R	R16J-330	1	417343314
PCB4	R5030	CARBON R	R16J-56K	1	417345634
PCB4	R5031	CARBON R	R16J-56K	1	417345634
PCB4	R5032	CARBON R	R16J-56K	1	417345634
PCB4	R5033	CARBON R	R16J-56K	1	417345634
PCB4	R5034	CARBON R	R16J-56K	1	417345634
PCB4	R5040	CARBON R	R16J-2.2K	1	417342224
PCB4	R5041	CARBON R	R16J-2.2K	1	417342224
PCB4	R5042	CARBON R	R16J-2.2K	1	417342224
PCB4	R5043	CARBON R	R16J-2.2K	1	417342224
PCB4	R5044	CARBON R	R16J-2.2K	1	417342224
PCB4	R5050	CARBON R	R16J-4.7K	1	417344724
PCB4	R5051	CARBON R	R16J-4.7K	1	417344724
PCB4	R5052	CARBON R	R16J-4.7K	1	417344724
PCB4	R5053	CARBON R	R16J-4.7K	1	417344724
PCB4	R5054	CARBON R	R16J-4.7K	1	417344724
PCB4	R5060	CARBON R	R16J-1.2K	1	417341224
PCB4	R5061	CARBON R	R16J-1.2K	1	417341224
PCB4	R5062	CARBON R	R16J-1.2K	1	417341224
PCB4	R5063	CARBON R	R16J-1.2K	1	417341224
PCB4	R5064	CARBON R	R16J-1.2K	1	417341224
PCB4	R5070	CARBON R	R16J-560	1	417345614
PCB4	R5071	CARBON R	R16J-560	1	417345614
PCB4	R5072	CARBON R	R16J-560	1	417345614
PCB4	R5073	CARBON R	R16J-560	1	417345614
PCB4	R5074	CARBON R	R16J-560	1	417345614
PCB4	R5080	CARBON R	R16J-3.3K	1	417343324
PCB4	R5081	CARBON R	R16J-3.3K	1	417343324
PCB4	R5082	CARBON R	R16J-3.3K	1	417343324
PCB4	R5083	CARBON R	R16J-3.3K	1	417343324
PCB4	R5084	CARBON R	R16J-3.3K	1	417343324
PCB4	R5090	CARBON R	R16J-100K	1	417341044
PCB4	R5091	CARBON R	R16J-100K	1	417341044
PCB4	R5092	CARBON R	R16J-100K	1	417341044
PCB4	R5093	CARBON R	R16J-100K	1	417341044
PCB4	R5094	CARBON R	R16J-100K	1	417341044
PCB4	R5100	CARBON R	R16J-100K	1	417341044
PCB4	R5101	CARBON R	R16J-100K	1	417341044
PCB4	R5102	CARBON R	R16J-100K	1	417341044
PCB4	R5103	CARBON R	R16J-100K	1	417341044
PCB4	R5104	CARBON R	R16J-100K	1	417341044
PCB4	R5110	CARBON R	R16J-1K	1	417341024

PCB4	R5111	CARBON R	R16J-1K	1	417341024
PCB4	R5112	CARBON R	R16J-1K	1	417341024
PCB4	R5113	CARBON R	R16J-1K	1	417341024
PCB4	R5114	CARBON R	R16J-1K	1	417341024
PCB4	R5130	CARBON R	R16J-18K	1	417341834
PCB4	R5131	CARBON R	R16J-18K	1	417341834
PCB4	R5132	CARBON R	R16J-18K	1	417341834
PCB4	R5133	CARBON R	R16J-18K	1	417341834
PCB4	R5134	CARBON R	R16J-18K	1	417341834
PCB4	R5160	NF CARBON R	R25J-120	1	415471214
PCB4	R5161	NF CARBON R	R25J-120	1	415471214
PCB4	R5162	NF CARBON R	R25J-120	1	415471214
PCB4	R5163	NF CARBON R	R25J-120	1	415471214
PCB4	R5164	NF CARBON R	R25J-120	1	415471214
PCB4	R5170	NF CARBON R	R25J-120	1	415471214
PCB4	R5171	NF CARBON R	R25J-120	1	415471214
PCB4	R5172	NF CARBON R	R25J-120	1	415471214
PCB4	R5173	NF CARBON R	R25J-120	1	415471214
PCB4	R5174	NF CARBON R	R25J-120	1	415471214
PCB4	R5180	NF CARBON R	R25J-10	1	415471004
PCB4	R5181	NF CARBON R	R25J-10	1	415471004
PCB4	R5182	NF CARBON R	R25J-10	1	415471004
PCB4	R5183	NF CARBON R	R25J-10	1	415471004
PCB4	R5184	NF CARBON R	R25J-10	1	415471004
PCB4	R5190	NF CARBON R	R25J-10	1	415471004
PCB4	R5191	NF CARBON R	R25J-10	1	415471004
PCB4	R5192	NF CARBON R	R25J-10	1	415471004
PCB4	R5193	NF CARBON R	R25J-10	1	415471004
PCB4	R5194	NF CARBON R	R25J-10	1	415471004
PCB4	R6935	METAL O R	RS2WBJ-120	1	441721214F
PCB4	R9501	METAL R	RNU1/2WCJ-1	1	453530104
PCB4	R9502	METAL R	RNU1/2WCJ-0.47	1	453534794
PCB4	R9503	METAL R	RNU1/2WCJ-0.22	1	453532294
PCB4	R9521	METAL R	RNU1/2WCJ-3.9	1	453530394
PCB4	RL6600	RELAY	NRL-2P5A-DC24-129	1	25065563
PCB4	RL6600 or	RELAY	NRL-2P5A-DC24-142	(1)	25065586
PCB4	RL6600 or	RELAY	NRL-2P5A-DC24-098	(1)	25065517
PCB4	RL6601	RELAY	NRL-2P5A-DC24-129	1	25065563
PCB4	RL6601 or	RELAY	NRL-2P5A-DC24-142	(1)	25065586
PCB4	RL6601 or	RELAY	NRL-2P5A-DC24-098	(1)	25065517
PCB4	RL6603	RELAY	NRL-2P5A-DC24-129	1	25065563
PCB4	RL6603 or	RELAY	NRL-2P5A-DC24-142	(1)	25065586
PCB4	RL6603 or	RELAY	NRL-2P5A-DC24-098	(1)	25065517
PCB4	RL6604	RELAY	NRL-2P5A-DC24-129	1	25065563
PCB4	RL6604 or	RELAY	NRL-2P5A-DC24-142	(1)	25065586
PCB4	RL6604 or	RELAY	NRL-2P5A-DC24-098	(1)	25065517
PCB4	JL6803B	SOCKET	NSCT-5P97	1	25050269
PCB4	JL6804B	SOCKET	NSCT-5P97	1	25050269
PCB4	JL6805B	SOCKET	NSCT-4P96	1	25050268
PCB4	JL9501A	WIRE HOL	NSCT-7P898	1	25051111
PCB4	JL9501B	WIRE HOL	NSCT-7P898	1	25051111
PCB4	P201	JACK	NPJ-3PDYE158	1	25045299
PCB4	P201 or	PIN JACK	NPJ-3PDYYY560	(1)	25045778
PCB4	P202	JACK	NPJ-3PDYE158	1	25045299
PCB4	P202 or	PIN JACK	NPJ-3PDYYY560	(1)	25045778

PCB4	P206B	SOCKET	NSCT-14P1029	1	25051239
PCB4	P281	PIN JACK	NPJ-1PDBL291	1	25045473
PCB4	P281 or	PIN JACK	NPJ-1PDO554	(1)	25045772
PCB4	P282	ST JACK	LGY2502-0200C	1	25045696
PCB4	P306A	PLUG	NPLG-10P357	1	25055374
PCB4	P410A	SOCKET	NSCT-10P1025	1	25051235
PCB4	P411A	SOCKET	NSCT-10P1025	1	25051235
PCB4	P5001	BUS BAR	BBL40	1	27141773
PCB4	P6000A	SOCKET	NSCT-5P2185	1	25052288
PCB4	P6001A	SOCKET	NSCT-5P2185	1	25052288
PCB4	P6002A	SOCKET	NSCT-5P2185	1	25052288
PCB4	P6003A	SOCKET	NSCT-5P2185	1	25052288
PCB4	P6004A	SOCKET	NSCT-5P2185	1	25052288
PCB4	P6011A	SOCKET	NSCT-9P2189	1	25052292
PCB4	P6073	TRM	NTM-1P233(M1969)	1	25060302
PCB4	P6800	TRM	NTM-8PDML254	1	25060323
PCB4	P6800 or	TRM	NTM-8PDMR311	(1)	25060380
PCB4	P6801	TRM	NTM-6PDML266	1	25060335
PCB4	P6801 or	TRM	NTM-6PDMR312	(1)	25060381
PCB4	P6931A	SOCKET	NSCT-15P1030	1	25051240
PCB4	P7503B	SOCKET	NSCT-8P2138	1	25052241
PCB4	P7503Bor	SOCKET	NSCT-8P1101	(1)	25051312
PCB4	P7503Bor	SOCKET	NSCT-8P1841	(1)	25052054
PCB4	P7503Bor	SOCKET	NSCT-8P1639	(1)	25051852

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